ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010014A-2	5/25/2016	AHTD	ARKANSAS	343	020582

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	586,902.6171	0.0020
Easting (M)	438,650.1023	0.0020
Elevation (M)*		

Northing (SFT)	1,925,529.6696	
Easting (SFT)	1,439,137.8773	
Elevation (SFT)*		

Convergence Angle	0	14	6.5046326
Scale Factor	0.999933692		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 12A		
Latitude	34	21	3.8804544
Longitude	91	34	47.5491900
Ellipsoid Height (M):	31.127		0.0070
Geoid Height (M):	-26.373		0.0070

Location Description

FROM JCT OF SR-152 & SR-343 S OF STUTTGART, GO N ON SR-343 0.3 MI TO STA ON R JUST PAST THE KING BAYOU DITCH BRIDGE. 20' E OF C/L. STA IS A 2 1/2" ALUM CAP STAMPED "010014A 2016" SET BELLOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S END OF CMP	333	98.00	321.5
MK # 2				
MK # 3				

AZ Mark Station	010014-2
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARWY

Comments

GPS DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARCM, ARLR & ARWY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010015	8/31/2017	AHTD	ARKANSAS	79	020630

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	598,368.5725	0.0020
Easting (M)	437,152.8837	0.0020
Elevation (M)*	59.993	0.0000
Northing (SFT)	1,963,147.5583	
Easting (SFT)	1,434,225.7526	
Elevation (SFT)*	196.828	

Convergence Angle	0	13	34.7051685
Scale Factor	0.999945270		
Elevation Adjust. Factor	0.9999905852		
Combined Adjust. Factor	0.9999358557		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	34	27	16.2002844
Longitude	91	35	44.3653296
Ellipsoid Height (M):	33.493	0.0080	
Geoid Height (M):	-26.500		

Location Description

From the intersection of Hwy. 79 and 343/Goldman Sunshine Rd. go South 1.0 mile to station on the left at the intersection of Roth Prairie Rd. and Goldman Loop. 27' NW of witness post, 19' S of CL 343/Godman Sunshine Rd., 39' E of CL Roth Prairie Rd.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	witness post		8.23	27.0
MK # 2	CLof 343/Goldman Sunshine Rd.		5.79	19.0
MK # 3	CL Roth Prairie Rd		11.89	39.0

AZ Mark Station	010015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY

Comments

Position and elevation updated by crew S5113 in August 2017 during job 020630, which was determined by static GPS constraining the ortho. Ht. at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010015A	8/31/2017	AHTD	ARKANSAS	79	020630

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	598,354.6519	0.0020
Easting (M)	436,536.6206	0.0020
Elevation (M)*	60.591	0.0000
Northing (SFT)	1,963,101.8871	
Easting (SFT)	1,432,203.8961	
Elevation (SFT)*	198.788	

Convergence Angle	0	13	21.1904242
Scale Factor	0.999945257		
Elevation Adjust. Factor	0.9999904914		
Combined Adjust. Factor	0.9999357490		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	34	27	15.8268456
Longitude	91	36	8.5121388
Ellipsoid Height (M):	34.091	0.0080	
Geoid Height (M):	-26.496		

Location Description

From the intersection of Hwy. 79 and 343/Goldman Sunshine Rd. go South 1.0 mile to station on the left at the intersection of Roth Prairie Rd. and Goldman Loop. 27' NW of witness post, 19' S of CL 343/Godman Sunshine Rd., 39' E of CL Roth Prairie Rd.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	witness post		8.23	27.0
MK # 2	CLof 343/Goldman Sunshine Rd.		5.79	19.0
MK # 3	CL Roth Prairie Rd		11.89	39.0

AZ Mark Station	010015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010016	1/28/2019	AHTD	ARKANSAS	144	020714

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	557,721.5048	0.0010
Easting (M)	453,016.3402	0.0010
Elevation (M)*	51.893	
Northing (SFT)	1,829,791.3037	
Easting (SFT)	1,486,271.1095	
Elevation (SFT)*	170.254	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	5	14.5119156	
Longitude	91	25	31.7900028	
Ellipsoid Height (M):	25.713			0.0130
Geoid Height (M):	-26.172			0.0130

Convergence Angle	0	19	17.5578738
Scale Factor	0.999918895		
Elevation Adjust. Factor	0.9999918563		
Combined Adjust. Factor	0.9999107520		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 144 AND STATE HIGHWAY 165, SOUTHWEST OF GILLETT, GO EAST ON HIGHWAY 144 3.15 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 17' AND WEST 13.4' OF A FIELD ROAD. THE MARK IS A STANDARD 2" CAP STAMPED "010016 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CMP	0	6.25	20.5
MK # 2				
MK # 3				

AZ Mark Station	010016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JAN. 2019 FOR JOB #020714 FROM 1ST ORDER NGS BM 4 W. PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's E 226 AND F 226 AND CONSTRAINED ORTHO HTS. ALONG WITH ORHTO HT. ON CORS SITE ARMO IN FINAL STATIC NETWORK ADJUSTMENT AS A CHECK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010016A	1/28/2019	AHTD	ARKANSAS	144	020714

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	557,787.1769	0.0010
Easting (M)	453,437.6599	0.0010
Elevation (M)*	51.979	
Northing (SFT)	1,830,006.7629	
Easting (SFT)	1,487,653.3892	
Elevation (SFT)*	170.535	

Convergence Angle	0	19	26.7648774
Scale Factor	0.999918904		
Elevation Adjust. Factor	0.9999918428		
Combined Adjust. Factor	0.9999107475		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	5	16.5663744	
Longitude	91	25	15.3398388	
Ellipsoid Height (M):	25.793			0.0120
Geoid Height (M):	-26.177			0.0120

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 144 AND STATE HIGHWAY 165, SOUTHWEST OF GILLETT, GO EAST ON HIGHWAY 144 2.85 MILES TO THE MARK ON THE RIGHT, 20' NORTH OF THE C/L OF THE HIGHWAY AND 12.6' WEST OF A FIELD ROAD. THE MARK IS A STANDARD 2" CAP STAMPED "010016A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CMP	1	5.49	18.0
MK # 2				
MK # 3				

AZ Mark Station	010016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JAN. 2019 FOR JOB #020714 FROM 1ST ORDER NGS BM 4 W. PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's E 226 AND F 226 AND CONSTRAINED ORTHO HTS. ALONG WITH ORHTO HT. ON CORS SITE ARMO IN FINAL STATIC NETWORK ADJUSTMENT AS A CHECK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010017	1/14/2021	ARDOT	ARKANSAS	SR-1	02X172

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	580,279.3907	0.0030
Easting (M)	460,971.5522	0.0030
Elevation (M)*		

Northing (SFT)	1,903,799.9677	
Easting (SFT)	1,512,370.8342	
Elevation (SFT)*		

Convergence Angle	0	22	14.4336955
Scale Factor			0.999928407
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	17	25.0920636
Longitude	91	20	15.7657668
Ellipsoid Height (M):	31.421		0.0090
Geoid Height (M):	-26.422		0.0090

Location Description

010017 TO REACH THE STATION MARK FROM THE JCT OF SR-152 & SR-1 IN DEWITT, GO NORTH 0.7 MILES TO STATION ON LEFT. 19.6' WEST OF C/L SR-1. 72' NORTH OF C/L 5-TH STREET. THE MARK IS A STANDARD 2½" CAP STAMPED "010017 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	010017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARMO
Ref Mon # 3	ARPB, MSGN

Comments

CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR, ARMO, ARPB AND ON 1ST ORDER NGS BM B 117 IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010017A	1/14/2021	ARDOT	ARKANSAS	SR-1	02X172

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	580,725.7374	0.0030
Easting (M)	460,979.1615	0.0040
Elevation (M)*		
Northing (SFT)	1,905,264.3568	
Easting (SFT)	1,512,395.7990	
Elevation (SFT)*		

Convergence Angle	0	22	14.6634389	
Scale Factor			0.999928722	
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	17	39.5767428	
Longitude	91	20	15.3552840	
Ellipsoid Height (M):	30.565			0.0090
Geoid Height (M):	-26.428			0.0090

Location Description

010017A TO REACH THE STATION MARK FROM THE JCT OF SR-152 & SR-1 IN DEWITT, GO NORTH 0.9 MILES TO STATION ON RIGHT. 19.7' EAST OF C/L SR-1. 34' NORTH OF C/L 1-ST STREET. THE MARK IS A STANDARD 2½" CAP STAMPED "010017A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BRICK FENCE CORNER	130	4.21	13.8
MK # 2				
MK # 3				

AZ Mark Station	010017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARMO
Ref Mon # 3	ARPB, MSGN

Comments

CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR, ARMO, ARPB AND ON 1ST ORDER NGS BM B 117 IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020002	2/25/1998	AHTD	ASHLEY	133	020040

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	450,003.1430	
Easting (M)	403,781.7070	
Elevation (M)*	48.849	
Northing (SFT)	1,476,385.3117	
Easting (SFT)	1,324,740.4837	
Elevation (SFT)*	160.265	

Convergence Angle	0	1	21.6396879
Scale Factor			1.000045479
Elevation Adjust. Factor			0.9999923341
Combined Adjust. Factor			1.0000378127

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	7	2.9329608
Longitude	91	57	34.1342748
Ellipsoid Height (M):	22.992		
Geoid Height (M):	-25.846		

Location Description

THE STATION IS LOCATED ON THE SOUTH SIDE OF CROSSETT AT THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 133T. THE STATION IS 30.228 METERS NORTH OF THE CENTER OF A DIRT DRIVE, 23.628 METERS SOUTH-SOUTHWEST OF THE CENTER OF WATERWELL STREET, 11.828 METERS EAST OF THE CENTER OF STATE HIGHWAY 133 (MAIN STREET) AND 1.31 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020002 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	263	23.87	78.3
MK # 2	TELEPHONE JUNCTION BOX	343	17.77	58.3
MK # 3	TRAFFIC SIGNAL BOX	153	23.20	76.1

AZ Mark Station	020002A
Geodetic Azimuth	163 28 35.32853
Grid Azimuth	163 27 13.66807

Area Reference Monuments (used for Processing)

Ref Mon # 1	LISA
Ref Mon # 2	STELL
Ref Mon # 3	G 65 OFFSET,A 200 OFFSET

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020003	6/2/1998	AHTD	ASHLEY	82	R20014,020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	451,873.1734	
Easting (M)	415,663.4242	
Elevation (M)*	41.260	
Northing (SFT)	1,482,520.5697	
Easting (SFT)	1,363,722.4176	
Elevation (SFT)*	135.368	

Convergence Angle	0	5	38.2087286
Scale Factor	1.000040889		
Elevation Adjust. Factor	0.9999935250		
Combined Adjust. Factor	1.0000344137		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	8	3.2384760	
Longitude	91	49	55.7220720	
Ellipsoid Height (M):	15.573			
Geoid Height (M):	-25.794			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 52, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF CROSSETT, GO WEST ON US HIGHWAY 82 FOR 0.77 KM (0.48 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.785 METERS NORTH OF THE CENTER OF US HIGHWAY 82, 1.67 METERS SOUTH OF A WEB WIRE FENCE AND 1.53 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020003 1998" SET ON TOP OF AN IRON IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKED	352	1.57	5.2
MK # 2				
MK # 3				

AZ Mark Station	020003A
Geodetic Azimuth	94 34 32.34725
Grid Azimuth	94 28 54.00549

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	82 V 10 W

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020003A	6/2/1998	AHTD	ASHLEY	82	R20014,020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	451,831.9370	
Easting (M)	416,189.9002	
Elevation (M)*	41.218	
Northing (SFT)	1,482,385.2800	
Easting (SFT)	1,365,449.6976	
Elevation (SFT)*	135.228	

Convergence Angle	0	5	49.5750054
Scale Factor	1.000040992		
Elevation Adjust. Factor	0.9999935316		
Combined Adjust. Factor	1.0000345234		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	8	1.8715200
Longitude	91	49	35.4139320
Ellipsoid Height (M):	15.520		
Geoid Height (M):	-25.793		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 52, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF CROSSETT, GO WEST ON US HIGHWAY 82 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.70 METERS SOUTH OF THE CENTER OF US HIGHWAY 82, 7.50 METERS NORTHWEST OF THE CENTER OF A DIRT ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020003A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	020003
Geodetic Azimuth	274 34 43.44774
Grid Azimuth	274 28 54.00549

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	82 V 10 W

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020004	6/2/1998	AHTD	ASHLEY	52	R20014

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	451,797.4470
Easting (M)	421,581.0640
Elevation (M)*	40.374
Northing (SFT)	1,482,272.1240
Easting (SFT)	1,383,137.2075
Elevation (SFT)*	132.461

Convergence Angle	0	7	45.9798770
Scale Factor			1.000041103
Elevation Adjust. Factor			0.9999936640
Combined Adjust. Factor			1.0000347667

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	EDM - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	8	0.4060896
Longitude	91	46	7.4332128
Ellipsoid Height (M):	14.836		
Geoid Height (M):	-25.785		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWSAY 82 AND STATE HIGHWAY 52, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF CROSSETT, GO EAST ON STATE HIGHWAY 52 FOR 2.82 KM (1.75 MI) TO THE JUNCTION OF COUNTY ROAD 25, CONTINUE EAST ON STATE HIGHWAY 52 FOR 1.85 KM (1.15 MI) TO THE JUNCTION OF A GRAVEL ROAD AND THE STATION ON THE LEFT. THE STATION IS 28.037 METERS NORTH OF THE CENTER OF STATE HIGHWAY 52, 9.677 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020004 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	020004A
Geodetic Azimuth	27 54 40.49957
Grid Azimuth	27 46 54.48832

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	82 V 10 W

Comments

ELEVATION BY EDM FROM THIRD ORDER BENCH PER KIT. TRIG ELEVATION

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020004A	6/2/1998	AHTD	ASHLEY	52	R20014

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	452,032.2340
Easting (M)	421,704.7580
Elevation (M)*	38.890
Northing (SFT)	1,483,042.4210
Easting (SFT)	1,383,543.0269
Elevation (SFT)*	127.591
Convergence Angle	0 7 48.6621966
Scale Factor	1.000040529
Elevation Adjust. Factor	0.9999938969
Combined Adjust. Factor	1.0000344257

Vertical Determined By:	EDM - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 8 8.0177712
Longitude	91 46 2.6407092
Ellipsoid Height (M):	13.311
Geoid Height (M):	-25.783

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 52, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF CROSSETT, GO EAST ON STATE HIGHWAY 52 FOR 2.82 KM (1.75 MI) TO THE JUNCTION OF COUNTY ROAD 25, CONTINUE EAST ON STATE HIGHWAY 52 FOR 1.85 KM (1.15 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE LEFT, GO LEFT, NORTH ON THE GRAVEL ROAD FOR 0.29 KM (0.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 61.847 METERS NORTH OF THE NORTH END OF A WOODEN BRIDGE, 4.85 METERS EAST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020004A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	020004
Geodetic Azimuth	207 54 43.11918
Grid Azimuth	207 46 54.48832

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	82 V 10 W

Comments

ELEVATION BY EDM FROM THIRD ORDER BENCH PER KIT. TRIG ELEVATION

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020005	6/2/1998	AHTD	ASHLEY	52	R20014

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	452,122.8920
Easting (M)	428,600.8310
Elevation (M)*	47.062
Northing (SFT)	1,483,339.8548
Easting (SFT)	1,406,167.8930
Elevation (SFT)*	154.403

Convergence Angle	0	10	17.5714323
Scale Factor			1.000040352
Elevation Adjust. Factor			0.9999926145
Combined Adjust. Factor			1.0000329662

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	8	10.3709904	
Longitude	91	41	36.5844048	
Ellipsoid Height (M):	21.286			
Geoid Height (M):	-25.776			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 8, LOCATED IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 13.86 KM (8.61 MI) TO THE "Y" JUNCTION OF A GRAVEL ROAD ON THE LEFT AND THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT SOUTH ON THE GRAVEL ROAD FOR 4.48 KM (2.78 MI) TO THE STATION ON THE LEFT AND A "Y" JUNCTION ON THE RIGHT. THE STATION IS 7.10 METERS EAST OF THE CENTER OF A GRAVEL ROAD AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	202	13.90	45.6
MK # 2				
MK # 3				

AZ Mark Station	020005A
Geodetic Azimuth	206 53 02.29144
Grid Azimuth	206 42 44.78746

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	82 V 10 W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020005A	6/2/1998	AHTD	ASHLEY	52	R20014

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	451,594.7729	
Easting (M)	428,335.0710	
Elevation (M)*	45.927	
Northing (SFT)	1,481,607.1841	
Easting (SFT)	1,405,295.9788	
Elevation (SFT)*	150.679	

Convergence Angle	0	10	11.7991453
Scale Factor	1.000041643		
Elevation Adjust. Factor	0.9999927926		
Combined Adjust. Factor	1.0000344353		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	7	53.2549020
Longitude	91	41	46.8977568
Ellipsoid Height (M):	20.149		
Geoid Height (M):	-25.778		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 8, LOCATED IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 13.86 KM (8.61 MI) TO THE "Y" JUNCTION OF A GRAVEL ROAD ON THE LEFT AND THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT SOUTH ON THE GRAVEL ROAD FOR 5.07 KM (3.15 MI) TO THE JUNCTION OF A GRAVEL ROAD (STATE HIGHWAY 52) AND THE STATION. THE STATION IS 18.438 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 52, 4.748 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	65	17.34	56.9
MK # 2	EAST END OF A 0.45 METER CMP	37	38.51	126.4
MK # 3	WEST END OF A 0.45 METER CMP	24	37.23	122.1

AZ Mark Station	020005
Geodetic Azimuth	26 52 56.65420
Grid Azimuth	26 42 44.78746

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	82 V 10 W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010002	10/25/2000	AHTD	ARKANSAS	79	020140,020630

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	597,957.2955	0.0020
Easting (M)	434,916.8054	0.0020
Elevation (M)*	58.497	0.0000
Northing (SFT)	1,961,798.2270	
Easting (SFT)	1,426,889.5524	
Elevation (SFT)*	191.920	

Convergence Angle	0	12	45.6384234
Scale Factor			0.999944809
Elevation Adjust. Factor			0.9999908200
Combined Adjust. Factor			0.9999356295

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	27	3.1306824
Longitude	91	37	12.0340524
Ellipsoid Height:			32.117
Grid Northing (Meters)			597,957.2980
Grid Easting (Meters)			434,916.7770

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	27	3.1305960	
Longitude	91	37	12.0329400	
Ellipsoid Height (M):			32.020	0.0080
Geoid Height (M):			-26.479	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 152 EAST, LOCATED ABOUT 0.80 KM (0.50 MI) EAST OF HUMPHREY, GO EAST ON U.S. HIGHWAY 79 FOR 6.65 KM (4.13 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.30 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010002 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 513.692 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	244	20.30	66.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	010002A
Geodetic Azimuth	226 37 23.69092
Grid Azimuth	226 24 38.00928

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	J 112
Ref Mon # 3	ALMYPORT AZ MK

Comments

**********Superceded Elev. 192.181' ********** Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010002A	10/25/2000	AHTD	ARKANSAS	79	020140.020630

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	597,603.1388	0.0020
Easting (M)	434,544.7392	0.0020
Elevation (M)*	58.736	0.0030
Northing (SFT)	1,960,636.2979	
Easting (SFT)	1,425,668.8652	
Elevation (SFT)*	192.703	

Convergence Angle	0	12	37.4514964
Scale Factor			0.999944408
Elevation Adjust. Factor			0.9999907825
Combined Adjust. Factor			0.9999351910

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	26	51.6810300
Longitude	91	37	26.6609604
Ellipsoid Height:			32.331
Grid Northing (Meters)			597,603.1316
Grid Easting (Meters)			434,544.7283

Vertical Determined By:			GPS - Unknown Quality
Elevation Datum:			NAVD 88
Geoid Datum:			GEOID12B
Latitude	34	26	51.6812640
Longitude	91	37	26.6605320
Ellipsoid Height (M):			32.181 0.0090
Geoid Height (M):			-26.471

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 152 EAST, LOCATED ABOUT 0.80 KM (0.50 MI) EAST OF HUMPHREY, GO EAST ON U.S. HIGHWAY 79 FOR 6.15 KM (3.82 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010002A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANC IS 513.692 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	322	8.15	26.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	010002
Geodetic Azimuth	46 37 15.416819
Grid Azimuth	46 24 38.009281

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	J 112
Ref Mon # 3	ALMYPORT AZ MK

Comments

**********Superceded Elev. 192.703' ********** Position and elevation updated by crew S5113 in August 2017 during job 020630. Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from 010015, which was determined by static GPS constraining the ortho. Ht. at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010003	10/25/2000	AHTD	ARKANSAS	79	020140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	595,405.6352	
Easting (M)	430,876.1192	
Elevation (M)*	59.019	
Northing (SFT)	1,953,426.6548	
Easting (SFT)	1,413,632.7344	
Elevation (SFT)*	193.632	

Convergence Angle	0	11	16.8533315
Scale Factor			0.999941992
Elevation Adjust. Factor			0.9999907381
Combined Adjust. Factor			0.9999327306

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	25	40.7764524
Longitude	91	39	50.6653668
Ellipsoid Height (M):	32.524		
Geoid Height (M):	-26.252		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 152 EAST, LOCATED ABOUT 0.80 KM (0.50 MI) EAST OF HUMPHREY, GO EAST ON U.S. HIGHWAY 79 FOR 1.88 KM (1.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.60 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79, 12.20 METERS NORTH OF THE CENTER OF A GRAVEL ROAD (SENNING LOOP) AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 647.058 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	80	7.15	23.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	010003A
Geodetic Azimuth	57 51 48.739043
Grid Azimuth	57 40 31.946809

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	J 112
Ref Mon # 3	ALMYPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010003A	10/25/2000	AHTD	ARKANSAS	79	020140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	595,751.6030	
Easting (M)	431,422.8693	
Elevation (M)*	59.207	
Northing (SFT)	1,954,561.7175	
Easting (SFT)	1,415,426.5304	
Elevation (SFT)*	194.248	

Convergence Angle	0	11	28.8641987
Scale Factor	0.999942365		
Elevation Adjust. Factor	0.9999907086		
Combined Adjust. Factor	0.9999330741		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	25	51.9459348
Longitude	91	39	29.2055364
Ellipsoid Height (M):	32.696		
Geoid Height (M):	-26.261		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 152 EAST, LOCATED ABOUT 0.80 KM (0.50 MI) EAST OF HUMPHREY, GO EAST ON U.S. HIGHWAY 79 FOR 2.51 KM (1.56 MI) TO THE STATION ON THE LEFT. THE STATION IS 28.00 METERS SOUTHWEST OF THE CENTER OF A FIELD ENTRANCE, 13.75 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 647.058 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	56	13.50	44.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	010003
Geodetic Azimuth	237 52 00.87227
Grid Azimuth	237 40 31.94681

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	J 112
Ref Mon # 3	ALMYPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010011	10/25/2004	AHTD	ARKANSAS	153	020417

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	598,316.1949
Easting (M)	461,836.5840
Elevation (M)*	
Northing (SFT)	1,962,975.7161
Easting (SFT)	1,515,208.8593
Elevation (SFT)*	
Convergence Angle	0 22 35.9604343
Scale Factor	0.999945061
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	27	10.2851856
Longitude	91	19	37.3039176
Ellipsoid Height (M):	32.247		
Geoid Height (M):	-26.519		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 153 AND STATE HIGHWAY 33, SOUTH OF CASSCOE, GO NORTH (WESTERLY) ON HIGHWAY 153 0.30 MILES TO THE STATION ON THE RIGHT, NORTH 12.7 METERS OF THE CENTERLINE OF THE HIGHWAY, AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010011 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" CMP	28	22.00	72.2
MK # 2	POWER POLE	154	29.10	95.5
MK # 3				

AZ Mark Station	010011A
Geodetic Azimuth	98 28 13
Grid Azimuth	98 05 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016
Ref Mon # 2	ALMYPORT
Ref Mon # 3	OKOM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010011A	10/25/2004	AHTD	ARKANSAS	153	020417

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	598,264.4559
Easting (M)	462,200.4100
Elevation (M)*	
Northing (SFT)	1,962,805.9691
Easting (SFT)	1,516,402.5118
Elevation (SFT)*	
Convergence Angle	0 22 43.9307228
Scale Factor	0.999944999
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	27	8.5282092
Longitude	91	19	23.0633940
Ellipsoid Height (M):	31.206		
Geoid Height (M):	-26.522		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 153 AND STATE HIGHWAY 33, SOUTH OF CASSCOE, GO NORTH (WESTERLY) ON HIGHWAY 153 0.075 MILES TO THE STATION ON THE LEFT, SOUTH 15.4 METERS OF THE CENTERLINE OF THE HIGHWAY, AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "010011A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	010011
Geodetic Azimuth	278 28 21
Grid Azimuth	278 05 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016
Ref Mon # 2	ALMYPORT
Ref Mon # 3	OKOM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010012	1/24/2008	AHTD	ARKANSAS	63	001701

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,558.6789	
Easting (M)	440,677.4570	
Elevation (M)*	65.741	
Northing (SFT)	1,993,298.7657	
Easting (SFT)	1,445,789.2902	
Elevation (SFT)*	215.685	

Convergence Angle	0	14	52.8650165
Scale Factor	0.999956877		
Elevation Adjust. Factor	0.9999896832		
Combined Adjust. Factor	0.9999465607		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	32	13.9925292
Longitude	91	33	24.7089600
Ellipsoid Height:	39.253		
Grid Northing (Meters)	607,559.0413		
Grid Easting (Meters)	440,677.6614		

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	32	13.9807968	
Longitude	91	33	24.7170384	
Ellipsoid Height (M):	39.253			
Geoid Height (M):	-26.488			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 63 AND 165, NORTHEAST OF STUTTGARTH, GO SOUTH ON HIGHWAY 63 FOR 191 FEET (CHAINED DISTANCE) TO THE STATION MARK ON THE LEFT, EAST OF THE CENTER OF THE HIGHWAY 63 53.0 FEET AND WEST OF A WITNESS POST 1.50 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "010012 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD RIGHT OF WAY MARKER	12	1.18	3.9
MK # 2	FIRE HYDRANDT	55	12.01	39.4
MK # 3	SW CORNER BLK BLDING	112	7.93	26.0

AZ Mark Station	010012A
Geodetic Azimuth	185 18 54
Grid Azimuth	185 04 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ
Ref Mon # 2	ARLR
Ref Mon # 3	590007, 590007A

Comments

3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010012A	1/24/2008	AHTD	ARKANSAS	63	001701

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	607,052.1239	
Easting (M)	440,632.5440	
Elevation (M)*	65.658	
Northing (SFT)	1,991,636.8432	
Easting (SFT)	1,445,641.9381	
Elevation (SFT)*	215.412	

Convergence Angle	0	14	51.8311198
Scale Factor			0.999956182
Elevation Adjust. Factor			0.9999896963
Combined Adjust. Factor			0.9999458787

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	31	57.5594688
Longitude	91	33	26.5563216
Ellipsoid Height:			39.177
Grid Northing (Meters)			607,052.4882
Grid Easting (Meters)			440,632.7459

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	31	57.5476716
Longitude	91	33	26.5643028
Ellipsoid Height (M):	39.177		
Geoid Height (M):	-26.481		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 63 AND 165, NORTHEAST OF STUTTGARTH, GO SOUTH ON HIGHWAY 63 FOR 0.30 MILES TO THE STATION MARK ON THE RIGHT, WEST OF THE CENTER OF THE HIGHWAY 66.70 FEET AND EAST OF A WITNESS POST 1.50 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "010012A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDASTAL	172	5.73	18.8
MK # 2	POWER POLE W/GUY	255	16.40	53.8
MK # 3	WATER METER	193	6.55	21.5

AZ Mark Station	010012
Geodetic Azimuth	5 18 53
Grid Azimuth	5 04 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ
Ref Mon # 2	ARLR
Ref Mon # 3	590007, 590007A

Comments

3 WIRE LEVEL BY S5102 FROM NGS BENCH MARK N 113 1/24/2008.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010013	9/11/2012	AHTD	ARKANSAS	1	020538

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	582,740.4465	
Easting (M)	464,700.1820	
Elevation (M)*	60.615	0.0038
Northing (SFT)	1,911,874.2816	
Easting (SFT)	1,524,603.8471	
Elevation (SFT)*	198.869	

Convergence Angle	0	23	36.4064966
Scale Factor	0.999930188		
Elevation Adjust. Factor	0.9999904876		
Combined Adjust. Factor	0.9999206762		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	18	44.1589320
Longitude	91	17	49.3048680
Ellipsoid Height (M):	34.236		
Geoid Height (M):	-26.382		

Location Description

From the juntion of Hwy.1 and 1B in Dewitt, Go northeast on hwy.1 for 2.125mi to the station on the left. The station is a standard alum cap set on top of a 4ft 5/8" rebar driven 2" below ground surface, stamped 010013 2012. Lat-034.18.44 Lon-91.17.49

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	w/p	334	8.05	26.4
MK # 2	pp	20	5.27	17.3
MK # 3	CL		13.90	45.6

AZ Mark Station	010013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on NGS Benchmarks R226 and Y225

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010013A	9/11/2012	AHTD	ARKANSAS	1	020538

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	583,032.8350	
Easting (M)	465,175.0972	
Elevation (M)*	52.405	0.0027
Northing (SFT)	1,912,833.5595	
Easting (SFT)	1,526,161.9647	
Elevation (SFT)*	171.932	

Convergence Angle	0	23	46.8472152
Scale Factor	0.999930408		
Elevation Adjust. Factor	0.9999917760		
Combined Adjust. Factor	0.9999221846		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:			
Latitude	34	18	53.5421520
Longitude	91	17	30.6504240
Ellipsoid Height (M):	26.010		
Geoid Height (M):	-26.390		

Location Description

From the junction of hwy 1 and 1B in Dewitt, Go northeast on hwy. 1 for 2.45mi to the station on the left. The station is a standard cap stamped 010013A on top of a 4ft. 5/8 rebar driven 2" below the ground surface. Lat-034.18.53 Lon-091.17.30

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	w/p	340	0.60	2.0
MK # 2	center of metal gate	330	32.31	106.0
MK # 3	CL		13.10	43.0

AZ Mark Station	010013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on NGS Benchmarks R226 and Y225

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010014	5/2/2013	AHTD	JEFFERSON	11	020539

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	570,100.7207	
Easting (M)	442,400.6579	
Elevation (M)*	54.898	
Northing (SFT)	1,870,405.4478	
Easting (SFT)	1,451,442.8251	
Elevation (SFT)*	180.110	

Convergence Angle	0	15	26.9934698
Scale Factor			0.999922602
Elevation Adjust. Factor			0.9999913848
Combined Adjust. Factor			0.9999139875

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	11	58.0394904
Longitude	91	32	23.7396912
Ellipsoid Height (M):	28.837		
Geoid Height (M):	-26.061		

Location Description

TO REACH FROM THE JCT. OF HWY. 276 AND HWY. 276S SPUR IN BAYOU METO. GO SOUTH ON 276S SPUR FOR 1.0 MILES TO HWY. 11. THEN GO WEST (RIGHT) ON HWY. 11 FOR 1.4 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 4.0 FT. WEST OF A WITNESS POST, AND 68.0 FT. EAST OF THE CENTERLINE OF HWY. 11. THE MARK IS A 2 1/2 IN. CAP STAMPED "010014 2013" SET ONTOP OF A 5/8 IN. BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	002	14.63	48.0
MK # 2	ABANDONED POLE W/LIGHT	067	1.52	5.0
MK # 3	POWER POLE W/GUY	255	51.21	168.0

AZ Mark Station	010014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital Levels were ran ran from NGS BM J 112 by Crew S5102 during Job 020539.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010014-2	5/25/2016	AHTD	ARKANSAS	152	020582

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	586,388.5842	0.0020
Easting (M)	438,635.0869	0.0020
Elevation (M)*		

Northing (SFT)	1,923,843.2133	
Easting (SFT)	1,439,088.6143	
Elevation (SFT)*		

Convergence Angle	0	14	6.1295897
Scale Factor	0.999933250		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 12A		
Latitude	34	20	47.1994296
Longitude	91	34	48.2192796
Ellipsoid Height (M):	32.958		0.0070
Geoid Height (M):	-26.367		0.0070

Location Description

STA IS LOCATED IN THE SW QUADRANT OF JCT OF SR-152 & SR-343, S OF STUTTGART. 39' S OF C/L OF SR-152. 16' W OF FREEMONT LN. STA IS A 2 1/2" ALUM CAP STAMPED "010014 2016" SET BELLOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	141	69.00	226.4
MK # 2	SERVICE POLE	262	31.00	101.7
MK # 3	POWER POLE W/TRANSFORMER	354	75.00	246.1

AZ Mark Station	010014A-2
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARWY

Comments

GPS DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARCM, ARLR & ARWY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
010014A	5/2/2013	AHTD	JEFFERSON	11	020539

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	569,334.1958	
Easting (M)	442,415.6827	
Elevation (M)*	54.685	
Northing (SFT)	1,867,890.6074	
Easting (SFT)	1,451,492.1190	
Elevation (SFT)*	179.412	

Convergence Angle	0	15	27.2466141
Scale Factor	0.999922263		
Elevation Adjust. Factor	0.9999914183		
Combined Adjust. Factor	0.9999136819		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	11	33.1587528
Longitude	91	32	23.2873980
Ellipsoid Height (M):	28.630		
Geoid Height (M):	-26.055		

Location Description

TO REACH FROM THE JCT. OF HWY. 276 AND HWY 276S SPUR IN BAYOU METO. GO SOUTH ON HWY. 276S SPUR FOR 1.0 MILES TO HWY. 11. THEN GO WEST (RIGHT) ON HWY. 11 FOR 1.9 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 4.0 FT. EAST OF A WITNESS POST, AND 55.6 FT. EAST OF THE CENTERLINE OF HWY. 11. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "010014A 2013" SET ONTOP OF A 5/8 IN BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	24" CMP UNDER GRAVEL FLD RD	240	3.96	13.0
MK # 2	SOUTH CORNER OF HEADWALL	281	10.97	36.0
MK # 3	POWER POLE	342	7.62	25.0

AZ Mark Station	010014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital Levels were ran ran from NGS BM J 112 by Crew S5102 during Job 020539.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020006	6/2/1998	AHTD	ASHLEY	8	R20014

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	456,405.0120
Easting (M)	430,693.5720
Elevation (M)*	51.311
Northing (SFT)	1,497,388.7769
Easting (SFT)	1,413,033.8275
Elevation (SFT)*	168.343

Convergence Angle	0	11	3.0564568
Scale Factor			1.000030130
Elevation Adjust. Factor			0.9999919477
Combined Adjust. Factor			1.0000220775

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	10	29.1502992
Longitude	91	40	15.3162588
Ellipsoid Height (M):	25.550		
Geoid Height (M):	-25.761		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 8, LOCATED IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 14.08 KM (8.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.587 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKED	177	0.73	2.4
MK # 2	GUY POLE	313	34.47	113.1
MK # 3				

AZ Mark Station	020006A
Geodetic Azimuth	274 01 36.20482
Grid Azimuth	273 50 33.26235

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	82 V 10 W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020006A	6/2/1998	AHTD	ASHLEY	8	R20014

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	456,436.7660	
Easting (M)	430,220.7940	
Elevation (M)*	52.891	
Northing (SFT)	1,497,492.9565	
Easting (SFT)	1,411,482.7216	
Elevation (SFT)*	173.527	

Convergence Angle	0	10	52.8455320
Scale Factor	1.000030053		
Elevation Adjust. Factor	0.9999916997		
Combined Adjust. Factor	1.0000217525		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	10	30.2299320
Longitude	91	40	33.5601300
Ellipsoid Height (M):	27.131		
Geoid Height (M):	-25.760		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 425, US HIGHWAY 82 AND STATE HIGHWAY 8, LOCATED IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 13.60 KM (8.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.53 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	269	28.06	92.0
MK # 2				
MK # 3				

AZ Mark Station	020006
Geodetic Azimuth	94 01 26.22185
Grid Azimuth	93 50 33.26235

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	82 V 10 W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020007	10/11/1999	AHTD	ASHLEY	82	2735_1,020676

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	463,621.6588	0.0006
Easting (M)	421,948.4874	0.0006
Elevation (M)*	46.696	0.0010
Northing (SFT)	1,521,065.3922	
Easting (SFT)	1,384,342.6624	
Elevation (SFT)*	153.201	

Convergence Angle	0	7	54.5006062
Scale Factor	1.000013838		
Elevation Adjust. Factor	0.9999926719		
Combined Adjust. Factor	1.0000065098		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	14	24.1735344
Longitude	91	45	52.2086184
Ellipsoid Height:	20.956		
Grid Northing (Meters)	463,621.6360		
Grid Easting (Meters)	421,948.5030		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	33	14	24.1742760
Longitude	91	45	52.2092160
Ellipsoid Height (M):	20.805		
Geoid Height (M):	-25.805		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 425, LOCATED IN HAMBURG, GO EAST ON U.S. HIGHWAY 82 FOR 3.63 KM (2.09 MI) TO THE STATION ON THE LEFT SET IN THE FRONT LAWN OF THE ASHLEY COUNTY AHTD MAINTENANCE AREA. THE STATION IS 9.80 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 7.25 METERS EAST OF THE CENTER OF THE WEST ENTRANCE TO THE MAINTENANCE AREA AND 0.88 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUASH WITH THE GROUND. THE SHOT DISTANCE IS 386.539 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF EAST HEADWALL	321	0.92	3.0
MK # 2	SOUTH END OF WEST HEADWALL	242	12.25	40.2
MK # 3				

AZ Mark Station	020007A
Geodetic Azimuth	58 58 39.79417
Grid Azimuth	58 50 45.21943

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	MSGN
Ref Mon # 3	1ULM

Comments

.Updated in April 2018 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020007A	10/11/1999	AHTD	ASHLEY	82	2735_1,020676

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	463,821.6231	0.0006
Easting (M)	422,279.2769	0.0006
Elevation (M)*	52.445	0.0010
Northing (SFT)	1,521,721.4418	
Easting (SFT)	1,385,427.9276	
Elevation (SFT)*	172.062	

Convergence Angle	0	8	1.6619560
Scale Factor			1.000013408
Elevation Adjust. Factor			0.9999917698
Combined Adjust. Factor			1.0000051777

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	14	30.6395556
Longitude	91	45	39.4132104
Ellipsoid Height:			265.846
Grid Northing (Meters)			463,821.6111
Grid Easting (Meters)			422,279.2980

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	14	30.6399480	
Longitude	91	45	39.4140240	
Ellipsoid Height (M):			26.641	
Geoid Height (M):			-25.804	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 425, LOCATED IN HAMBURG, GO EAST ON U.S. HIGHWAY 82 FOR 3.75 KM (2.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82. THE STATION IS A STANDARD 64mm CAP STAMPED "020007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 386.539 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	45	4.55	14.9
MK # 2				
MK # 3				

AZ Mark Station	020007
Geodetic Azimuth	238 58 46.80812
Grid Azimuth	238 50 45.21943

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	MSGN
Ref Mon # 3	1ULM

Comments

.Updated in April 20189 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020008	1/8/2001	AHTD	ASHLEY	82	020323

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	452,060.6559	
Easting (M)	404,874.7498	
Elevation (M)*	50.687	
Northing (SFT)	1,483,135.6686	
Easting (SFT)	1,328,326.5750	
Elevation (SFT)*	166.296	

Convergence Angle	0	1	45.2590173
Scale Factor			1.000040402
Elevation Adjust. Factor			0.9999920456
Combined Adjust. Factor			1.0000324473

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	8	9.7002888	
Longitude	91	56	51.9335916	
Ellipsoid Height (M):	24.861			
Geoid Height (M):	-25.826			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIHGWAY 82 AND STATE HIGHWAY 133, LOCATED ON THE EAST SIDE OF CROSSETT, GO EAST ON U.S. HIGHWAY 82 FOR 0.52 KM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.25 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 14.00 METERS WEST OF THE CENTER OF EAST WELLFIELD ROAD, 12.64 METERS NORTH OF THE NORTH RAIL OF AN ABANDONED RAILROAD TRACK AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020008 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 958. THE SHOT DISTANCE IS 416.149 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	260	29.05	95.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	020008A
Geodetic Azimuth	275 20 57.72929
Grid Azimuth	275 19 12.60179

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	J 12 OFFSET

Comments

ELEVATION BY 3-WIRE FROM NGS POINT J 12

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020008A	1/8/2001	AHTD	ASHLEY	133	020323

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	452,113.0465
Easting (M)	404,351.5415
Elevation (M)*	46.309
Northing (SFT)	1,483,307.5534
Easting (SFT)	1,326,610.0157
Elevation (SFT)*	151.931

Convergence Angle	0	1	33.9620526
Scale Factor			1.000040273
Elevation Adjust. Factor			0.9999927327
Combined Adjust. Factor			1.0000330054

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	8	11.4090036
Longitude	91	57	12.1178916
Ellipsoid Height (M):	20.480		
Geoid Height (M):	-25.829		

Location Description

THE STATION IS LOCATED ON THE EAST SIDE OF CROSSETT, AT THE JUNCTION OF U.S. HIHGWAY 82 AND STATE HIGHWAY 133. THE STATION IS LOCATED 30.30 METERS NORTH OF THE CENTER OF THE WEST BOUND LANE OF U.S. HIGHWAY 82, 13.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 133 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020008A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 958. THE SHOT DISTANCE IS 524.308 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	14	15.60	51.2
MK # 2	POWER POLE	112	7.50	24.6
MK # 3	SIGNAL LIGHT CONTROL BOX	155	14.35	47.1

AZ Mark Station	020008
Geodetic Azimuth	95 20 46.719907
Grid Azimuth	95 19 12.601786

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	J 12 OFFSET

Comments

ELEVATION BY 3-WIRE FROM NGS POINT J 12

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020009	1/8/2001	AHTD	ASHLEY	133	020323

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	455,725.6178	
Easting (M)	405,460.5267	
Elevation (M)*	44.873	
Northing (SFT)	1,495,159.7977	
Easting (SFT)	1,330,248.4113	
Elevation (SFT)*	147.220	

Convergence Angle	0	1	57.9527739
Scale Factor	1.000031612		
Elevation Adjust. Factor	0.9999929581		
Combined Adjust. Factor	1.0000245698		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	10	8.6488176
Longitude	91	56	29.2536420
Ellipsoid Height (M):	19.075		
Geoid Height (M):	-25.793		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 52, LOCATED IN NORTH CROSSETT, GO NORTH ON STATE HIGHWAY 133 FOR 0.34 KM (0.21 MI) TO THE JUNCTION OF MARIAS SALINE STREET AND THE STATION ON THE RIGHT. THE STATION IS 11.15 METERS SOUTH OF THE CENTER OF MARIAS SALINE STREET, 7.65 METERS EAST OF THE CENTER OF STATE HIGHWAY 133 AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020009 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 416.149 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CMP	339	5.60	18.4
MK # 2	WATER VALUE	44	9.45	31.0
MK # 3	NORTH END OF A METEL PIPE CULVERT	185	13.75	45.1

AZ Mark Station	020009A
Geodetic Azimuth	181 22 01.70899
Grid Azimuth	181 20 03.75863

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	J 12 OFFSET

Comments

ELEVATION BY 3-WIRE FROM NGS POINT J 12

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020009A	1/8/2001	AHTD	ASHLEY	133	020323

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	455,309.5702	
Easting (M)	405,450.8355	
Elevation (M)*	47.162	
Northing (SFT)	1,493,794.8149	
Easting (SFT)	1,330,216.6161	
Elevation (SFT)*	154.731	

Convergence Angle	0	1	57.7383053
Scale Factor	1.000032594		
Elevation Adjust. Factor	0.9999925988		
Combined Adjust. Factor	1.0000251925		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	9	55.1447352
Longitude	91	56	29.6368332
Ellipsoid Height (M):	21.369		
Geoid Height (M):	-25.797		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 52, LOCATED IN NORTH CROSSETT GO SOUTH ON STATE HIGHWAY 133 FOR 0.08 KM (0.05 MI) TO THE ENTRANCE TO THE OLD WREN MOVIE DRIVE-IN AND THE STATION ON THE LEFT. THE STATION IS 10.30 METER EAST OF THE CENTER OF STATE HIGHWAY 133, 8.00 METERS NORTH OF THE CENTER OF THE EXIT DRIVE OF THE DRIVE-IN, 7.30 METERS SOUTH OF A GRAVEL DRIVE TO A TRAILER PART AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020009A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 416.149 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	METAL LIGHT POLE	136	19.30	63.3
MK # 2	EAST END OF WOODEN SIGN (WERN MOVI E)	157	14.00	45.9
MK # 3	GUY POLE	199	14.80	48.6

AZ Mark Station	020009
Geodetic Azimuth	1 22 01.499347
Grid Azimuth	1 20 03.758625

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	LISA
Ref Mon # 3	J 12 OFFSET

Comments

ELEVATION BY 3-WIRE FROM NGS POINT J 12

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020010	3/8/2001	AHTD	ASHLEY	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	477,389.6106
Easting (M)	413,831.5792
Elevation (M)*	51.209
Northing (SFT)	1,566,235.7474
Easting (SFT)	1,357,712.4394
Elevation (SFT)*	168.008

Convergence Angle	0	4	59.4549925
Scale Factor			0.999986365
Elevation Adjust. Factor			0.9999919637
Combined Adjust. Factor			0.9999783288

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	Level - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	51.5590776
Longitude	91	51	4.9634172
Ellipsoid Height (M):	25.528		
Geoid Height (M):	-25.647		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 16.09 KM (10.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.25 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 10.50 METERS EAST OF THE CENTER OF A PAVED DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020010 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 591.995 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	FOUNTAIN AZ
Geodetic Azimuth	179 18 11.81417
Grid Azimuth	179 13 12.35781

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020011	3/8/2001	AHTD	ASHLEY	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	473,111.0382
Easting (M)	415,485.7983
Elevation (M)*	51.809
Northing (SFT)	1,552,198.4645
Easting (SFT)	1,363,139.6566
Elevation (SFT)*	169.977
Convergence Angle	0 5 35.1184347
Scale Factor	0.999994401
Elevation Adjust. Factor	0.9999918695
Combined Adjust. Factor	0.9999862706

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	19	32.5989588
Longitude	91	50	1.2435036
Ellipsoid Height (M):	26.168		
Geoid Height (M):	-25.641		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 11.27 KM (7.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 16.40 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020011 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5104 FROM U.S.C.&G.S. AZMUTH MARK "GARNER". THE SHOT DISTANCE IS 474.145 METER.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	020011A
Geodetic Azimuth	339 40 15.67735
Grid Azimuth	339 34 40.59163

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020011A	3/8/2001	AHTD	ASHLEY	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	473,555.3735	
Easting (M)	415,320.3568	
Elevation (M)*	55.235	
Northing (SFT)	1,553,656.2546	
Easting (SFT)	1,362,596.8706	
Elevation (SFT)*	181.217	

Convergence Angle	0	5	31.5536814
Scale Factor			0.999993546
Elevation Adjust. Factor			0.9999913319
Combined Adjust. Factor			0.9999848780

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	19	47.0302356	
Longitude	91	50	7.6126524	
Ellipsoid Height (M):	29.594			
Geoid Height (M):	-25.641			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 11.83 KM (7.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 13.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020011A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5104 FROM U.S.C.&G.S. AZMUTH MARK "GARNER". THE SHOT DISTANCE IS 474.145 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	330	16.50	54.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	020011
Geodetic Azimuth	159 40 12.17797
Grid Azimuth	159 34 40.59163

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020012	3/8/2001	AHTD	ASHLEY	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	468,985.3805	
Easting (M)	416,728.0738	
Elevation (M)*	59.885	
Northing (SFT)	1,538,662.8692	
Easting (SFT)	1,367,215.3555	
Elevation (SFT)*	196.473	

Convergence Angle	0	6	1.8450616
Scale Factor	1.000002574		
Elevation Adjust. Factor	0.9999906022		
Combined Adjust. Factor	0.9999931762		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	17	18.6170460
Longitude	91	49	13.4910084
Ellipsoid Height (M):	34.230		
Geoid Height (M):	-25.655		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 7.23 KM (4.49 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020012 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5104 FROM U.S.C.&G.S. AZMUTH MARK "GARNER". THE SHOT DISTANCE IS 623.626 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POLE	155	20.10	65.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	020012A
Geodetic Azimuth	163 21 31.03331
Grid Azimuth	163 15 29.15067

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020012A	3/8/2001	AHTD	ASHLEY	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	468,388.1889
Easting (M)	416,907.7206
Elevation (M)*	54.845
Northing (SFT)	1,536,703.5831
Easting (SFT)	1,367,804.7467
Elevation (SFT)*	179.937

Convergence Angle	0	6	5.7080926
Scale Factor			1.000003791
Elevation Adjust. Factor			0.9999913931
Combined Adjust. Factor			0.9999951841

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	16	59.2226832	
Longitude	91	49	6.5889264	
Ellipsoid Height (M):	29.186			
Geoid Height (M):	-25.659			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 6.44 KM (4.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 2.50 METERS WEST OF THE CENTER OF A WEB WIRE FENCE AND 2.34 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020012A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5104 FROM U.S.C.&G.S. AZMUTH MARK "GARNER". THE SHOT DISTANCE IS 623.626 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CABLE MARK	154	12.25	40.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	020012
Geodetic Azimuth	343 21 34.82119
Grid Azimuth	343 15 29.15067

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020013	3/8/2001	AHTD	ASHLEY	425	R20111,020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	463,067.8437	
Easting (M)	418,893.3668	
Elevation (M)*	52.071	
Northing (SFT)	1,519,248.4172	
Easting (SFT)	1,374,319.3209	
Elevation (SFT)*	170.837	

Convergence Angle	0	6	48.4289527
Scale Factor	1.000015025		
Elevation Adjust. Factor	0.9999918284		
Combined Adjust. Factor	1.0000068533		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	33	14	6.4104576
Longitude	91	47	50.2595160
Ellipsoid Height (M):	26.394		
Geoid Height (M):	-25.699		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 0.56 KM (0.35 MI) TO THE CHURCH OF CHRIST AND THE STATION ON THE LEFT. THE STATION IS 11.20 METERS SOUTH OF THE CENTER OF WEST FOOTE STREET, 10.10 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 476.959 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRON POST TO CHURCH OF CHRIST SIGN	228	4.85	15.9
MK # 2	GUY POLE	305	10.70	35.1
MK # 3	NONE			

AZ Mark Station	020013A
Geodetic Azimuth	8 34 54.126114
Grid Azimuth	8 28 05.681224

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020013A	3/8/2001	AHTD	ASHLEY	425	R20111,020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	463,539.6105	
Easting (M)	418,963.6056	
Elevation (M)*	51.072	
Northing (SFT)	1,520,796.2054	
Easting (SFT)	1,374,549.7627	
Elevation (SFT)*	167.559	

Convergence Angle	0	6	49.9676127
Scale Factor	1.000014002		
Elevation Adjust. Factor	0.9999919852		
Combined Adjust. Factor	1.0000059871		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	33	14	21.7188240
Longitude	91	47	47.5103904
Ellipsoid Height (M):	25.390		
Geoid Height (M):	-25.695		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 1.05 KM (0.65 MI) TO THE HAMBURG SENIOR CITIZENS CENTER AND THE STATION ON THE RIGHT. THE STATION IS 24.00 METERS SOUTH OF THE CENTER OF A PAVED ROAD, 11.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 476.959 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE MAN HOLE COVER	19	17.50	57.4
MK # 2	TELEPHONE JUNCTION BOX	12	18.85	61.8
MK # 3	NONE			

AZ Mark Station	020013
Geodetic Azimuth	188 34 55.63293
Grid Azimuth	188 28 05.68122

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020014	4/2/2001	AHTD	ASHLEY	82	020321, 020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	469,779.2537
Easting (M)	434,793.9794
Elevation (M)*	53.478
Northing (SFT)	1,541,267.4348
Easting (SFT)	1,426,486.5807
Elevation (SFT)*	175.451

Convergence Angle	0	12	32.6888689
Scale Factor	1.000001068		
Elevation Adjust. Factor	0.9999916077		
Combined Adjust. Factor	0.9999926757		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	17	42.8008524
Longitude	91	37	35.1699240
Ellipsoid Height (M):	27.822		
Geoid Height (M):	-25.745		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 13.13 KM (8.16 MI) TO THE STATION ON THE RIGHT SET IN THE SOUTHWEST CORNER OF A CEMETERY. THE STATION IS 11.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 3.45 METERS NORTH OF A WINTESS POST SET IN A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 467.582 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE = TBM 904	117	16.95	55.6
MK # 2	CONCRETE R/W MARKER	19	0.30	1.0
MK # 3	CORNER OF CHAIN LINK FENCE	270	11.47	37.6

AZ Mark Station	020014A
Geodetic Azimuth	108 14 42.34908
Grid Azimuth	108 02 09.56801

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020014A	4/2/2001	AHTD	ASHLEY	82	020321, 020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	469,634.4856	
Easting (M)	435,238.5795	
Elevation (M)*	53.400	
Northing (SFT)	1,540,792.4748	
Easting (SFT)	1,427,945.2396	
Elevation (SFT)*	175.197	

Convergence Angle	0	12	42.2951223
Scale Factor	1.000001363		
Elevation Adjust. Factor	0.9999916199		
Combined Adjust. Factor	0.9999929829		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	17	38.0488884
Longitude	91	37	18.0064200
Ellipsoid Height (M):	27.744		
Geoid Height (M):	-25.750		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 12.63 KM (7.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 4.80 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 467.582 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF MOBIL HOME	171	11.60	38.1
MK # 2	NORTHEAST CORNER OF MOBIL HOME	150	13.30	43.6
MK # 3	NONE			

AZ Mark Station	020014
Geodetic Azimuth	288 14 51.77087
Grid Azimuth	288 02 09.65801

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020015 Reset	3/22/2005	AHTD	ASHLEY	82	020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	469,834.1191
Easting (M)	440,317.1150
Elevation (M)*	
Northing (SFT)	1,541,447.4391
Easting (SFT)	1,444,607.0681
Elevation (SFT)*	

Convergence Angle	0	14	32.1730774
Scale Factor			1.000001001
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	17	43.8755856
Longitude	91	34	1.6873500
Ellipsoid Height (M):	13.433		
Geoid Height (M):	-25.795		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 7.10 KM (4.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020015RESET 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND CABLE MARKER		153.00	502.0
MK # 2				
MK # 3				

AZ Mark Station	020024
Geodetic Azimuth	238 07 41
Grid Azimuth	237 53 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	020014, 090014, 090015
Ref Mon # 2	090014A, 020014A
Ref Mon # 3	82 V 10W

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020016	4/2/2001	AHTD	ASHLEY	82	020321,020260

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	470,378.9389	
Easting (M)	444,310.6081	
Elevation (M)*	39.720	
Northing (SFT)	1,543,234.9020	
Easting (SFT)	1,457,709.0534	
Elevation (SFT)*	130.316	

Convergence Angle	0	15	58.6172016
Scale Factor	0.999999945		
Elevation Adjust. Factor	0.9999937666		
Combined Adjust. Factor	0.9999937116		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	0.9843444
Longitude	91	31	27.2375328
Ellipsoid Height (M):	13.949		
Geoid Height (M):	-25.831		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 2.88 KM (1.79 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.40 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020016 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 662.935 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	184	2.95	9.7
MK # 2	POWER POLE	231	11.20	36.7
MK # 3	NONE			

AZ Mark Station	020016A
Geodetic Azimuth	96 27 51.694442
Grid Azimuth	96 11 52.941439

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020016A	4/2/2001	AHTD	ASHLEY	82	020321,020260

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	470,307.3651	
Easting (M)	444,969.6668	
Elevation (M)*	39.113	
Northing (SFT)	1,543,000.0803	
Easting (SFT)	1,459,871.3152	
Elevation (SFT)*	128.323	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	17	58.5610116	
Longitude	91	31	1.7759964	
Ellipsoid Height (M):	13.350			
Geoid Height (M):	-25.837			

Convergence Angle	0	16	12.8677864
Scale Factor	1.000000094		
Elevation Adjust. Factor	0.9999938620		
Combined Adjust. Factor	0.9999939560		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 2.22 KM (1.38 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020016A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 662.935 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	180	2.05	6.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	020016
Geodetic Azimuth	276 28 05.67338
Grid Azimuth	276 11 52.94144

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020017	12/17/2001	AHTD	ASHLEY	133	020339

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	460,078.6811
Easting (M)	407,023.0460
Elevation (M)*	
Northing (SFT)	1,509,441.4729
Easting (SFT)	1,335,374.7768
Elevation (SFT)*	
Convergence Angle	0 2 31.7739127
Scale Factor	1.000021599
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	12	29.9096460
Longitude	91	55	28.8253740
Ellipsoid Height (M):	22.953		
Geoid Height (M):	-25.748		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 14.886 KM (9.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 133, 4.25 METERS NORTH OF THE CENTER OF A PAVED CHURCH DRIVE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020017 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 542.813 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	179	19.34	63.5
MK # 2	LIGHT POLE	203	22.45	73.7
MK # 3	NORTH END CORRIGATED METAL PIPE	108	2.60	8.5

AZ Mark Station	170017A
Geodetic Azimuth	2 36 14
Grid Azimuth	2 33 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020017A	12/17/2001	AHTD	ASHLEY	133	020339

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	460,620.9560
Easting (M)	407,047.3070
Elevation (M)*	
Northing (SFT)	1,511,220.5865
Easting (SFT)	1,335,454.3730
Elevation (SFT)*	
Convergence Angle	0 2 32.3068683
Scale Factor	1.000020384
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 12 47.5105428
Longitude	91 55 27.8731416
Ellipsoid Height (M):	25.068
Geoid Height (M):	-25.744

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 14.339 KM (8.91 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.75 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 11.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 133, 9.00 METERS NORTH OF THE CENTER OF BETHEL ROAD, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020017A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 542.813 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	95	8.00	26.2
MK # 2	WATER VALVE COVER	58	6.90	22.6
MK # 3	NORTH END CORRIGATED METAL PIPE	221	4.75	15.6

AZ Mark Station	170017
Geodetic Azimuth	182 36 14
Grid Azimuth	182 33 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020018	12/17/2001	AHTD	ASHLEY	133	020339

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	467,373.1070
Easting (M)	406,997.5780
Elevation (M)*	
Northing (SFT)	1,533,373.2685
Easting (SFT)	1,335,291.2205
Elevation (SFT)*	
Convergence Angle	0 2 31.3391908
Scale Factor	1.000005854
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 16 26.6775708
Longitude	91 55 29.6020920
Ellipsoid Height (M):	23.883
Geoid Height (M):	-25.706

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 7.644 KM (4.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.50 METERS SOUTH OF LEXIE WOODS ROAD, 12.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 133, AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020018 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 448.208 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD CORNER POST	356	19.25	63.2
MK # 2	SOUTH END CORRIGATED METAL PIPE	8	27.85	91.4
MK # 3				

AZ Mark Station	020018A
Geodetic Azimuth	176 42 02
Grid Azimuth	176 39 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020018A	12/17/2001	AHTD	ASHLEY	133	020339

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	466,925.6650
Easting (M)	407,023.7020
Elevation (M)*	
Northing (SFT)	1,531,905.2859
Easting (SFT)	1,335,376.9290
Elevation (SFT)*	
Convergence Angle	0 2 31.8970565
Scale Factor	1.000006783
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	16	12.1535436
Longitude	91	55	28.6053528
Ellipsoid Height (M):	26.963		
Geoid Height (M):	-25.708		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 8.111 KM (5.04 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.00 METERSSOUTH OF THE CENTER OF A GRAVEL DRIVE, 11.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 133, 5.50 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020018A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 448.208 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CORRIGATED METAL PIPE	338	9.70	31.8
MK # 2	NORTH END CORRIGATED METAL PIPE	228	3.15	10.3
MK # 3	CROSS TIE FENCE POST	164	9.50	31.2

AZ Mark Station	020018
Geodetic Azimuth	356 42 03
Grid Azimuth	356 39 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020019	12/17/2001	AHTD	ASHLEY	133	020339

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	472,461.2320
Easting (M)	408,632.2380
Elevation (M)*	
Northing (SFT)	1,550,066.5587
Easting (SFT)	1,340,654.2675
Elevation (SFT)*	
Convergence Angle	0 3 6.7922205
Scale Factor	0.999995643
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 19 11.7884568
Longitude	91 54 26.2581228
Ellipsoid Height (M):	12.251
Geoid Height (M):	-25.683

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 2.012 KM (1.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.25 METERS EAST OF THE CENTER OF STATE HIGHWAY 133, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020019 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 673.283 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CORRIGATED METAL PIPE	343	7.55	24.8
MK # 2				
MK # 3				

AZ Mark Station	020019A
Geodetic Azimuth	181 45 38
Grid Azimuth	181 42 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020019A	12/17/2001	AHTD	ASHLEY	133	020339

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	471,788.2500
Easting (M)	408,612.1640
Elevation (M)*	
Northing (SFT)	1,547,858.6169
Easting (SFT)	1,340,588.4081
Elevation (SFT)*	
Convergence Angle	0 3 6.3446840
Scale Factor	0.999996958
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	18	49.9448412
Longitude	91	54	27.0577368
Ellipsoid Height (M):	16.049		
Geoid Height (M):	-25.683		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8 LOCATED ABOUT 6.437 KM (4.00 MI) WEST OF FOUNTAIN HILL, GO SOUTH ON STATE HIGHWAY 133 FOR 2.655 KM (1.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 30.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.75 METERS WEST OF THE CENTER OF STATE HIGHWAY 133, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020019A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 673.283 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CORRIGATED METAL PIPE	2	26.55	87.1
MK # 2				
MK # 3				

AZ Mark Station	020019
Geodetic Azimuth	1 45 37
Grid Azimuth	1 42 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020020	3/5/2002	AHTD	ASHLEY	8	001941

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	476,468.6591	
Easting (M)	406,536.4460	
Elevation (M)*	33.205	
Northing (SFT)	1,563,214.2591	
Easting (SFT)	1,333,778.3233	
Elevation (SFT)*	108.940	

Convergence Angle	0	2	21.5010704
Scale Factor	0.999988042		
Elevation Adjust. Factor	0.9999947891		
Combined Adjust. Factor	0.9999828311		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	21.9191220
Longitude	91	55	47.1798732
Ellipsoid Height (M):	7.728		
Geoid Height (M):	-25.702		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8, LOCATED ABOUT 4.00 MILES WEST OF FOUNTAIN HILL, GO NORTHWEST ON STATE HIGHWAY 8 FOR 1.80 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 8, 6.60 METERS NORTH OF A GRAVEL ENTRANCE TO A PIPE LINE RIGHT OF WAY, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END CORRIGATED METAL PIPE	85	4.20	13.8
MK # 2				
MK # 3				

AZ Mark Station	020020A
Geodetic Azimuth	141 05 42
Grid Azimuth	141 03 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020020A	3/5/2002	AHTD	ASHLEY	8	001941

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	475,943.7913	
Easting (M)	406,797.8059	
Elevation (M)*	34.192	
Northing (SFT)	1,561,492.2553	
Easting (SFT)	1,334,635.8015	
Elevation (SFT)*	112.178	

Convergence Angle	0	2	27.1508846
Scale Factor	0.999989015		
Elevation Adjust. Factor	0.9999946342		
Combined Adjust. Factor	0.9999836492		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	4.8765600
Longitude	91	55	37.0853436
Ellipsoid Height (M):	8.719		
Geoid Height (M):	-25.700		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 8, LOCATED ABOUT 4.00 MILES WEST OF FOUNTAIN HILL, GO NORTHWEST ON STATE HIGHWAY 8 FOR 1.54 MILES TO THE STATION ON THE LEFT. THE STATION IS 29.00 METERS SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE, 11.10 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 8, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020020A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CORRIGATED METAL PIPE	313	24.20	79.4
MK # 2				
MK # 3				

AZ Mark Station	020020
Geodetic Azimuth	321 05 48
Grid Azimuth	321 03 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020021	1/22/2003	AHTD	ASHLEY	8	020383

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	458,165.0100
Easting (M)	425,402.7030
Elevation (M)*	
Northing (SFT)	1,503,163.0370
Easting (SFT)	1,395,675.3681
Elevation (SFT)*	
Convergence Angle	0 9 8.8624718
Scale Factor	1.000026017
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	11	26.7814788
Longitude	91	43	39.3467844
Ellipsoid Height (M):	16.743		
Geoid Height (M):	-25.746		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND U.S. HIGHWAY 425 IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR 5.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8, 5.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020021 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	338	1.40	4.6
MK # 2				
MK # 3				

AZ Mark Station	020021A
Geodetic Azimuth	82 40 55
Grid Azimuth	82 31 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER, 480016
Ref Mon # 2	VICKSBURG CORS
Ref Mon # 3	WINNFIELD CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020021A	1/22/2003	AHTD	ASHLEY	8	020383

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	458,231.2130
Easting (M)	425,907.5730
Elevation (M)*	
Northing (SFT)	1,503,380.2380
Easting (SFT)	1,397,331.7624
Elevation (SFT)*	
Convergence Angle	0 9 19.7747544
Scale Factor	1.000025868
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	11	28.8862836
Longitude	91	43	19.8497964
Ellipsoid Height (M):	17.506		
Geoid Height (M):	-25.746		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND U.S. HIGHWAY 425 IN HAMBURG, GO EAST ON STATE HIGHWAY 8 FOR FOR 5.86 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS WEST OF THE CENTER OF A GRAVEL ROAD, 8.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8, AND 4.85 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "020021A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	020021
Geodetic Azimuth	262 41 06
Grid Azimuth	262 31 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER, 480016
Ref Mon # 2	VICKSBURG CORS
Ref Mon # 3	WINNFIELD CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020022	7/31/2003	AHTD	ASHLEY	82	020399,020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	

Northing (M)	451,987.6690	
Easting (M)	409,749.5284	
Elevation (M)*	46.419	
Northing (SFT)	1,482,896.2107	
Easting (SFT)	1,344,319.9111	
Elevation (SFT)*	152.293	

Convergence Angle	0	3	30.5169909
Scale Factor	1.000040590		
Elevation Adjust. Factor	0.9999927154		
Combined Adjust. Factor	1.0000333051		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	8	7.2101400
Longitude	91	53	43.8690480
Ellipsoid Height (M):	20.600		
Geoid Height (M):	-25.808		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 52,82, AND 425, EAST OF CROSSETT, GO WEST ON HIGHWAY 82 4.25 MILES TO THE STATION ON THE LEFT, ACROSS THE ROAD FROM THE UNITY BAPTIST CHURCH, SOUTH 8.7 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020022 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CHAINLINK GATE POST	120	12.20	40.0
MK # 2	MAILBOX 1016	288	24.00	78.7
MK # 3				

AZ Mark Station	020022A
Geodetic Azimuth	271 16 59
Grid Azimuth	271 13 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	Vicksburg 1 C.O.R.S.
Ref Mon # 2	1ULM C.O.R.S.
Ref Mon # 3	020008

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020022A	7/31/2003	AHTD	ASHLEY	82	020399,020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	

Northing (M)	452,001.3024	
Easting (M)	409,111.5436	
Elevation (M)*	45.680	
Northing (SFT)	1,482,940.9396	
Easting (SFT)	1,342,226.7893	
Elevation (SFT)*	149.869	

Convergence Angle	0	3	16.7415747
Scale Factor	1.000040555		
Elevation Adjust. Factor	0.9999928314		
Combined Adjust. Factor	1.0000333861		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	8	7.6731000
Longitude	91	54	8.4816000
Ellipsoid Height (M):	19.854		
Geoid Height (M):	-25.810		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 52,82, AND 425, EAST OF CROSSETT, GO WEST ON HIGHWAY 82 4.55 MILES TO THE STATION ON THE LEFT, SOUTH 10.75 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020022A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	100	33.40	109.6
MK # 2				
MK # 3				

AZ Mark Station	020022
Geodetic Azimuth	91 16 45
Grid Azimuth	91 13 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	Vicksburg 1 C.O.R.S.
Ref Mon # 2	1ULM C.O.R.S.
Ref Mon # 3	020008

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020023	3/22/2005	AHTD	ASHLEY	82	020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	470,372.7061
Easting (M)	444,309.1500
Elevation (M)*	
Northing (SFT)	1,543,214.4533
Easting (SFT)	1,457,704.2696
Elevation (SFT)*	
Convergence Angle	0 15 58.5850300
Scale Factor	0.999999957
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	18	0.7822584
Longitude	91	31	27.2950140
Ellipsoid Height (M):	13.935		
Geoid Height (M):	-25.831		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 2.88 KM (1.79 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.0 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020023 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	265	7.30	24.0
MK # 2	COMBINATION POLE	165	8.10	26.6
MK # 3				

AZ Mark Station	020023A
Geodetic Azimuth	96 09 45
Grid Azimuth	95 53 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	020014, 090014, 090015
Ref Mon # 2	090014A, 020014A
Ref Mon # 3	82 V 10W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020023A	3/22/2005	AHTD	ASHLEY	82	020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	470,302.4151
Easting (M)	444,989.7730
Elevation (M)*	
Northing (SFT)	1,542,983.8402
Easting (SFT)	1,459,937.2803
Elevation (SFT)*	
Convergence Angle	0 16 13.3022504
Scale Factor	1.000000104
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	17	58.3972620
Longitude	91	31	0.9997392
Ellipsoid Height (M):	13.306		
Geoid Height (M):	-25.837		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 2.22 KM (1.38 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.95 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020023A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	119	8.30	27.2
MK # 2	TELEPHONE POLE	277	20.50	67.3
MK # 3				

AZ Mark Station	020023A
Geodetic Azimuth	276 10 00
Grid Azimuth	275 53 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	020014, 090014, 090015
Ref Mon # 2	090014A, 020014A
Ref Mon # 3	82 V 10W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020024	3/22/2005	AHTD	ASHLEY	82	020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	469,394.1231
Easting (M)	439,616.0850
Elevation (M)*	
Northing (SFT)	1,540,003.8855
Easting (SFT)	1,442,307.1055
Elevation (SFT)*	
Convergence Angle	0 14 16.9684499
Scale Factor	1.000001883
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 17 29.6893464
Longitude	91 34 28.8534756
Ellipsoid Height (M):	13.044
Geoid Height (M):	-25.789

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 165, LOCATED ON THE SOUTH SIDE OF MONTROSE, GO WEST ON U.S. HIGHWAY 82 FOR 7.93 KM (4.93 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.70 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "020024 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	70	4.70	15.4
MK # 2	GUY	94	5.40	17.7
MK # 3				

AZ Mark Station	020015 RESET
Geodetic Azimuth	58 07 26
Grid Azimuth	57 53 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	020014, 090014, 090015
Ref Mon # 2	090014A, 020014A
Ref Mon # 3	82 V 10W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020025	11/17/2005	AHTD	ASHLEY	133	020240

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	449,738.4869
Easting (M)	403,863.8770
Elevation (M)*	49.002
Northing (SFT)	1,475,517.0191
Easting (SFT)	1,325,010.0698
Elevation (SFT)*	160.767

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	6	54.3416148
Longitude	91	57	30.9689892
Ellipsoid Height (M):	23.154		
Geoid Height (M):	-25.847		

Convergence Angle	0	1	23.4112688
Scale Factor	1.000046140		
Elevation Adjust. Factor	0.9999923100		
Combined Adjust. Factor	1.0000384497		

Location Description

The station is located 0.20 miles south on hwy-133 from the junction of highways 133 and 133T on the south side of Crossett. 13.60 meters north of "Woodshire street", 8.90 meters west of the center of hwy-133 and 0.50 meters east of a witness post. The station mark is a standard 64mm cap stamped "020025 2005" set on top of an iron rod 1.22 meters long and is just below the ground surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	233	9.50	31.2
MK # 2	Gas meter	330	30.50	100.1
MK # 3				

AZ Mark Station	020002
Geodetic Azimuth	342 46 29
Grid Azimuth	342 45 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	020002,LA 1
Ref Mon # 2	CSAL
Ref Mon # 3	1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020026	11/17/2005	AHTD	ASHLEY	133	020240

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	443,281.7070
Easting (M)	405,831.9370
Elevation (M)*	49.059
Northing (SFT)	1,454,333.4004
Easting (SFT)	1,331,466.9466
Elevation (SFT)*	160.954

Convergence Angle	0	2	5.8116451
Scale Factor			1.000062792
Elevation Adjust. Factor			0.9999923011
Combined Adjust. Factor			1.0000550926

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	3	24.7340484
Longitude	91	56	15.2121876
Ellipsoid Height (M):	23.190		
Geoid Height (M):	-25.869		

Location Description

To reach the station from the junction of highways 133 and 133T on the south side of Crossett go south on hwy-133 for 4.55 miles to the station on the left. 11.30 meters east of the center of hwy-133 and 0.50 meters west of a witness post. The station mark is a standard 64mm cap stamped "020026 2005" set on top of an iron rod 1.22 metsrs long and is just below the ground surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	020026A
Geodetic Azimuth	182 44 27
Grid Azimuth	182 42 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	020002,LA 1
Ref Mon # 2	CSAL
Ref Mon # 3	1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020026A	11/17/2005	AHTD	ASHLEY	133	020240

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	442,796.2419
Easting (M)	405,808.9940
Elevation (M)*	48.043
Northing (SFT)	1,452,740.6703
Easting (SFT)	1,331,391.6745
Elevation (SFT)*	157.621

Convergence Angle	0	2	5.3103373
Scale Factor			1.000064085
Elevation Adjust. Factor			0.9999924605
Combined Adjust. Factor			1.0000565451

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	3	8.9772660
Longitude	91	56	16.1078748
Ellipsoid Height (M):	22.172		
Geoid Height (M):	-25.870		

Location Description

To reach the station from the junction of highways 133 and 133T on the south side of Crossett go south on hwy-133 for 4.85 miles to the station on the right. 12.00 meters west of the center of hwy-133 and 0.50 meters east of a witness post. The station mark is a standard 64mm cap stamped "020026A 2005" set on top of an iron rod 1.22 metsrs long and is just below the ground surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	020026
Geodetic Azimuth	002 44 26
Grid Azimuth	002 42 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	020002,LA 1
Ref Mon # 2	CSAL
Ref Mon # 3	1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020027	11/17/2005	AHTD	ASHLEY	133	020240

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	437,957.5138	
Easting (M)	406,291.7270	
Elevation (M)*	34.706	
Northing (SFT)	1,436,865.6099	
Easting (SFT)	1,332,975.4410	
Elevation (SFT)*	113.865	

Convergence Angle	0	2	15.6550949
Scale Factor	1.000077286		
Elevation Adjust. Factor	0.9999945535		
Combined Adjust. Factor	1.0000718391		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	0	31.9123368
Longitude	91	55	57.6248844
Ellipsoid Height (M):	8.830		
Geoid Height (M):	-25.876		

Location Description

To reach the station from the junction of highways 133 and 133T on the south side of Crossett go south on hwy-133 for 7.95 miles to the station on the left 0.10 mile north of the Arkansas and Louisana state line. 14.30 meters east of the center of hwy-133 and 0.50 meters west of a witness post. The station mark is a standard 64mm cap stamped "020027 2005" set on top of an iron rod 1.22 metsrs long and is just below the ground surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	power pole with guy	337	10.60	34.8
MK # 2				
MK # 3				

AZ Mark Station	LA 1
Geodetic Azimuth	173 27 26
Grid Azimuth	173 25 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	020002,LA 1
Ref Mon # 2	CSAL
Ref Mon # 3	1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020028	11/10/2010	AHTD	ASHLEY	65	020509, 020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,020.9961	0.0020
Easting (M)	447,160.3902	0.0020
Elevation (M)*	38.673	

Northing (SFT)	1,542,060.5514	
Easting (SFT)	1,467,058.7135	
Elevation (SFT)*	126.880	

Convergence Angle	0	17	0.2302076	
Scale Factor			1.000000689	
Elevation Adjust. Factor			0.9999939310	
Combined Adjust. Factor			0.9999946200	

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)	
Latitude	33	17	48.9222456	
Longitude	91	29	37.1545188	
Ellipsoid Height:			12.738	
Grid Northing (Meters)			470,020.9920	
Grid Easting (Meters)			447,160.3640	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	17	48.9223716	
Longitude	91	29	37.1535036	
Ellipsoid Height (M):			12.576	0.0190
Geoid Height (M):			-25.946	0.0190

Location Description

To reach the station from the junction of Highway 165 and highway 82B in Montrose, go south 0.07 miles to the station on the right across the street from the post office, 35.5 feet west of the centerline of highway 165, 36 feet east of the east rail of the main railroad line, 5 feet west of the ditch back, 5 feet west of the witness post. The station is a standard aluminum cap set on top of a 4 foot rebar stamped "020028 2010" aand driven 0.2 feet below the ground level.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Mile marker 20	23	36.88	121.0
MK # 2	Southwest corner of post office	85	31.09	102.0
MK # 3	Power pole with light	125	21.95	72.0

AZ Mark Station	020028A
Geodetic Azimuth	0 33 21
Grid Azimuth	0 16 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

Elev established by crew s5105 from USGS 3rd order BM 11LMT 1977 converted to NAVD 88 in February 2011 for project 020509
**********SUPERCE
DED GEOID HT. IS -25.858m SUPERCEDED
REF. MONUMENTS ARE 82 V 10W, CSAL & MSCL
**********STATIC
DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020028A	11/10/2010	AHTD	ASHLEY	165	020509, 020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,562.0733	0.0020
Easting (M)	447,162.9454	0.0020
Elevation (M)*	37.164	

Northing (SFT)	1,543,835.7355	
Easting (SFT)	1,467,067.0967	
Elevation (SFT)*	121.930	

Convergence Angle	0	17	0.3433857
Scale Factor			0.999999606
Elevation Adjust. Factor			0.9999941677
Combined Adjust. Factor			0.9999937737

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	18	6.4840392
Longitude	91	29	36.9516156
Ellipsoid Height:			11.220
Grid Northing (Meters)			470,562.0601
Grid Easting (Meters)			447,162.9370

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	18	6.4844676
Longitude	91	29	36.9512880
Ellipsoid Height (M):	11.065		0.0190
Geoid Height (M):	-25.946		0.0190

Location Description

To reach the station from the junction of highway 165 and highway 82B in Montrose, go north 0.23 miles on highway 165 to the station on the left, 38 feet west of the intersection of highway 165 and East School St., 38 feet west of the centerline of highway 165, 34 feet east of the east rail of the main railroad line, 1.5 feet east of the witness post. The station is a standard aluminum cap set on top of a 4 foot rebar stamped "020028A 2010" and driven 0.2 feet below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole with light and utility pole	53	24.38	80.0
MK # 2	South end of a 18" plastic pipe	98	24.38	80.0
MK # 3	North west corner of a brick home	119	45.72	150.0

AZ Mark Station	
Geodetic Azimuth	180 33 21
Grid Azimuth	180 16 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

Elev established by crew s5105 from USGS 3rd order BM 11LMT 1977 converted to NAVD 88 in February 2011 for project 020509
**********SUPERCE
DED GEOID HT. IS -25.858m SUPERCEDED
REF. MONUMENTS ARE 82 V 10W, CSAL & MSCL
**********STATIC
DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020029	10/4/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	438,164.8822
Easting (M)	413,504.3425
Elevation (M)*	47.398
Northing (SFT)	1,437,545.9510
Easting (SFT)	1,356,638.8304
Elevation (SFT)*	155.507

Convergence Angle	0	4	51.1715061
Scale Factor			1.000076730
Elevation Adjust. Factor			0.9999925617
Combined Adjust. Factor			1.0000692911

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	0	38.4008400
Longitude	91	51	19.7635320
Ellipsoid Height (M):	21.480		
Geoid Height (M):	-25.942		

Location Description

Starting at the Arkansas state line on highway 425, go North .2 miles to the station on the right. The station is a standard alum. cap (stamped 020029-2011) and is set on a 4 foot long 5/8" rebar. It is 45 foot East of the CL of highway 425 and is also 44 foot North of a witness post. And as described as above. Lat. 33.0039 Lon. 091.5120

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	County Road A-2-E	185	25.10	82.3
MK # 2	Fiber Optic Cable Marker	135	9.75	32.0
MK # 3	Power Pole		13.40	44.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020029A	10/4/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	438,675.9118	
Easting (M)	413,529.5976	
Elevation (M)*	47.249	
Northing (SFT)	1,439,222.5540	
Easting (SFT)	1,356,721.6881	
Elevation (SFT)*	155.017	

Convergence Angle	0	4	51.7316244
Scale Factor	1.000075311		
Elevation Adjust. Factor	0.9999925851		
Combined Adjust. Factor	1.0000678955		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	0	54.9865800
Longitude	91	51	18.7627680
Ellipsoid Height (M):	21.332		
Geoid Height (M):	-25.942		

Location Description

Starting at the Arkansas state line on highway 425 go North .5 miles to the station on the left. The station is a standard alum. cap stamped (20029A-2011) and is set on a 4 foot long 5/8" rebar. It is 26 foot West of the CL of highway 425 and 8 foot North East of a witness post. And as described above. Lat. 33.00 55 Lon. 091.51 19

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Logging Road	10	4.27	14.0
MK # 2	Center of a Double Metal Gate	305	21.34	70.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020030	10/4/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	443,002.0087	
Easting (M)	414,324.4590	
Elevation (M)*	37.431	
Northing (SFT)	1,453,415.7569	
Easting (SFT)	1,359,329.4959	
Elevation (SFT)*	122.805	

Convergence Angle	0	5	9.0105251
Scale Factor	1.000063560		
Elevation Adjust. Factor	0.9999941259		
Combined Adjust. Factor	1.0000576855		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	3	15.3650520
Longitude	91	50	47.8905360
Ellipsoid Height (M):	11.522		
Geoid Height (M):	-25.935		

Location Description

Starting at the Arkansas state line go North on highway 425 for 3.4 miles to the station on the left. The station is a standard alum. cap stamped (020030-2011) and is set on a 4 foot long 5/8" rebar. It is 27 foot west of the CL of highway 425 and 13 foot east of a witness post. And as described above. Lat. 33.03 16 Lon. 091.50 49

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CMP	270	4.88	16.0
MK # 2	CL of county road A-261	355	4.27	14.0
MK # 3	Fiber Optic Cable Marker	210	17.98	59.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020030A	10/4/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	443,466.5892	
Easting (M)	414,345.8431	
Elevation (M)*	39.024	
Northing (SFT)	1,454,939.9681	
Easting (SFT)	1,359,399.6536	
Elevation (SFT)*	128.031	

Convergence Angle	0	5	9.4868644
Scale Factor	1.000062325		
Elevation Adjust. Factor	0.9999938759		
Combined Adjust. Factor	1.0000562005		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	3	30.4433640
Longitude	91	50	47.0394600
Ellipsoid Height (M):	13.114		
Geoid Height (M):	-25.934		

Location Description

Starting at the Arkansas state line go North on highway 425 for 3.7 miles to the station on the right. The station is a standard alum. cap stamped (020030A-2011) and set on a 4 foot long 5/8" rebar. It is 33 foot East of the CL of highway 425 and 2 foot South of a witness post. And as described above. Lan. 33.03 30 Lon. 091.50 47

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of Woods Entrance	175	3.35	11.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020031	10/4/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	447,991.5381
Easting (M)	415,235.9537
Elevation (M)*	42.171
Northing (SFT)	1,469,785.5712
Easting (SFT)	1,362,319.9581
Elevation (SFT)*	138.357

Convergence Angle	0	5	28.8450675
Scale Factor	1.000050573		
Elevation Adjust. Factor	0.9999933820		
Combined Adjust. Factor	1.0000439547		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	5	57.2698680
Longitude	91	50	12.4521360
Ellipsoid Height (M):	16.277		
Geoid Height (M):	-25.913		

Location Description

Starting at the Arkansas state line go North on 425 6.725 miles to the station on the left. The station is a standard alum. cap atamped(020031-2011) and is set on a 4 foot long 5/8" rebar. It is 26 west of the CL of 425 and 36 foot East of a witness. And as described above. Lat. 33.05 57 Lon. 091. 50 30

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	310	10.97	36.0
MK # 2	Extened CL of Woods Entrance	40	25.30	83.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020031A	10/4/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	448,372.4081
Easting (M)	415,573.4409
Elevation (M)*	38.970
Northing (SFT)	1,471,035.1422
Easting (SFT)	1,363,427.1974
Elevation (SFT)*	127.853
Convergence Angle	0 5 36.1426035
Scale Factor	1.000049608
Elevation Adjust. Factor	0.9999938844
Combined Adjust. Factor	1.0000434921

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	6	9.6145560
Longitude	91	49	59.4136200
Ellipsoid Height (M):	13.099		
Geoid Height (M):	-25.911		

Location Description

Starting at the Arkansas state line go North on highway 425 for 7.05 miles to the station on the left. The station is a standard alum. cap stamped(020031A-2011) and is set on a 4 foot long 5/8" rebar. And is 72 foot West of the CL of highway 425 and is 12 foot West of a witness post. And as described above. Lat. 33.06 09 Lon. 091.49 59

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	130	3.35	11.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020032	10/4/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	455,838.7954	
Easting (M)	417,138.8522	
Elevation (M)*	46.787	
Northing (SFT)	1,495,531.1146	
Easting (SFT)	1,368,563.0509	
Elevation (SFT)*	153.500	

Convergence Angle	0	6	10.2201769
Scale Factor	1.000031378		
Elevation Adjust. Factor	0.9999926577		
Combined Adjust. Factor	1.0000240354		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	10	11.8738200
Longitude	91	48	58.5271800
Ellipsoid Height (M):	20.983		
Geoid Height (M):	-25.857		

Location Description

This station is directly West of the 425 and 52 junction. It is a gravel parking area (thought to be an old gas station). The station is a standard alum. cap stamped(020032-2011) and is set on a 4 foot long 5/8" rebar. It is 66 foot East of the CL of highway 425 and is also 6.5 foot West of a witness post. And as described as above. Lat. 33.10 12 Lon. 091.48 58

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Extended CL of Highway 52	10	13.10	43.0
MK # 2	Light Pole	130	23.77	78.0
MK # 3	Concrete Island	90	1.98	6.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020032A	10/4/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	455,872.9644	0.0020
Easting (M)	416,607.4523	0.0020
Elevation (M)*	44.706	
Northing (SFT)	1,495,643.2174	
Easting (SFT)	1,366,819.6164	
Elevation (SFT)*	146.673	

Convergence Angle	0	5	58.7425978
Scale Factor	1.000031296		
Elevation Adjust. Factor	0.9999929842		
Combined Adjust. Factor	1.0000242800		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	10	13.0136520
Longitude	91	49	19.0350840
Ellipsoid Height:	18.902		
Grid Northing (Meters)	455,872.9730		
Grid Easting (Meters)	416,607.4290		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	10	13.0133712
Longitude	91	49	19.0341840
Ellipsoid Height (M):	18.855		0.0000
Geoid Height (M):	-25.851		

Location Description

Starting at the junction of the 425/82 and 52 go West on 52 for .3 miles to the station on the right or North. The station is a standard alum. cap stamped(020032A-2011) and is set on a 4 foot long 5/8" rebar. It is 51 foot North of the 52 CL and is 7 foot South of a witness post. And as described as above. Lat. 33.10 33 Lon. 091.49 19

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	C.M.P.	205	3.35	11.0
MK # 2	Gravel Driveway	265	4.27	14.0
MK # 3	Fire Hydrant	80	17.98	59.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020033	10/5/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	458,376.3139	
Easting (M)	418,190.6107	
Elevation (M)*	50.076	
Northing (SFT)	1,503,856.2899	
Easting (SFT)	1,372,013.6953	
Elevation (SFT)*	164.291	

Convergence Angle	0	6	33.0438438
Scale Factor	1.000025495		
Elevation Adjust. Factor	0.9999921415		
Combined Adjust. Factor	1.0000176363		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	11	34.1745720
Longitude	91	48	17.7481080
Ellipsoid Height (M):	24.290		
Geoid Height (M):	-25.837		

Location Description

Starting at the 425 & 82 junction in Hamburg go south on the Combined highway for 2.5 miles to the station on the right. The station is a standard alum. cap stamped(020033-2011) and is set on a 4 foot 5/8" rebar. It is 55 foot West of the CL of 425 and is 2 foot North of a witness post. Lat. 33.11 34 Lon. 091.48 18

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of a gravel drive to church		6.09	20.0
MK # 2	C.M.P.		3.05	10.0
MK # 3	12" red oak		30.18	99.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020033A	10/5/2011	AHTD	ASHLEY	425	020534

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	458,974.2966
Easting (M)	418,580.9921
Elevation (M)*	54.857
Northing (SFT)	1,505,818.1714
Easting (SFT)	1,373,294.4716
Elevation (SFT)*	179.977

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	11	53.5597800
Longitude	91	48	2.6324640
Ellipsoid Height (M):	29.075		
Geoid Height (M):	-25.832		

Convergence Angle	0	6	41.5039289
Scale Factor	1.000024132		
Elevation Adjust. Factor	0.9999913912		
Combined Adjust. Factor	1.0000155230		

Location Description

Starting at the junction of 425 & 82 Hamburg go south on the combined highway for 2.1 miles to the station on the left. The station is a standard alum. cap stamped(020033A-2011) and is set on a 4 foot 5/8" rebar. It is 49 foot east of the CL of highway 425 and is 21.5 south south east of a witness post. And as described above. Lat. 33.11 54 Lon. 091.48 03

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole		24.70	81.0
MK # 2	Power Pole and U.M.		21.60	70.9
MK # 3	6" blazed pine tree		10.00	32.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL 3 WR LEVELS WERE RAN BY GARVER FROM NGS BM RAWLS AND 34 V 26 DURING JOB 020534 IN JUNE 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020034	4/2/2018	AR DOT S5101	ASHLEY	82	020676

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	467,341.4750	0.0020
Easting (M)	428,400.0823	0.0020
Elevation (M)*	52.109	0.0023
Northing (SFT)	1,533,269.4892	
Easting (SFT)	1,405,509.2700	
Elevation (SFT)*	170.961	

Convergence Angle	0	10	14.2152722
Scale Factor	1.000006002		
Elevation Adjust. Factor	0.9999918225		
Combined Adjust. Factor	0.9999978244		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	16	24.3616440
Longitude	91	41	42.5808600
Ellipsoid Height (M):	26.299	0.0030	
Geoid Height (M):	-25.807		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82 LOCATED IN HAMBURG, ASHLEY COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 82 FOR 6.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 36 FEET SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 82, 15 FEET EAST OF THE CENTER OF A DIRT FIELD ENTRANCE, 36 FEET NORTH OF A WITNESS POST. THE STATION IS A STANDARD 2 INCH ALUMINUM CAP STAMPED "020034 2018" SET ON TOP OF A 4 FOOT LONG REBAR DRIVE 0.8 FEET BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	UTILITY MARKER (PHONE)	65	6.25	20.5
MK # 2	POWER POLE	355	9.60	31.5
MK # 3	IRRIGATION WELL	15	20.88	68.5

AZ Mark Station	020034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	MSGN
Ref Mon # 3	1ULM

Comments

April 20189 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020034A	4/2/2018	AR DOT S5101	ASHLEY	82	020676

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	467,408.6486	0.0020
Easting (M)	428,768.1511	0.0020
Elevation (M)*	53.512	0.0023

Northing (SFT)	1,533,489.8746	
Easting (SFT)	1,406,716.8424	
Elevation (SFT)*	175.562	

Convergence Angle	0	10	22.1799169
Scale Factor	1.000005865		
Elevation Adjust. Factor	0.9999916024		
Combined Adjust. Factor	0.9999974673		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	16	26.5062000
Longitude	91	41	28.3504200
Ellipsoid Height (M):	27.702		0.0000
Geoid Height (M):	-25.810		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82 LOCATED IN HAMBURG, ASHLEY COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 82 FOR 7.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 40 FEET SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 82, 85 FEET WEST OF THE CENTER OF A GRAVEL ROAD (ASHLEY COUNTY 912) , 5 FEET SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 2 INCH ALUMINUM CAP STAMPED "020034A 2018" SET ON TOP OF A 4 FOOT LONG REBAR DRIVE 0.8 FEET BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	290	2.13	7.0
MK # 2	TELEPHONE BOX	240	10.05	33.0
MK # 3	DOUBLE GUY WIRE	200	5.79	19.0

AZ Mark Station	020034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	MSGN
Ref Mon # 3	1ULM

Comments

April 20189 by crew S5101 during job 020676. Elevation by digital levels from USGS benchmarks t12 1932 and U12 1932. Position by static GPS holding elevation on 020034A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020035	6/13/2018	ARDOT	ASHLEY	8	HWY 8 DRAINAGE STUDY

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	479,051.6402	0.0020
Easting (M)	404,763.8013	0.0020
Elevation (M)*		
Northing (SFT)	1,571,688.5896	
Easting (SFT)	1,327,962.5714	
Elevation (SFT)*		

Convergence Angle	0	1	43.1548069
Scale Factor	0.999983350		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	22	45.7939992
Longitude	91	56	55.6931868
Ellipsoid Height (M):	5.175	0.0420	
Geoid Height (M):	-25.815	0.0420	

Location Description

"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 0.3 MILES TO THE STATION ON THE RIGHT. 21' NORTH OF THE C/L OF SR-8. 34.7' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2½"" CAP STAMPED ""220035 2018"" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	020035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	ARCM
Ref Mon # 3	1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020035A	6/13/2018	ARDOT	ASHLEY	8	HWY 8 DRAINAGE STUDY

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	478,997.7928	0.0030
Easting (M)	405,214.3285	0.0030
Elevation (M)*		
Northing (SFT)	1,571,511.9252	
Easting (SFT)	1,329,440.6761	
Elevation (SFT)*		

Convergence Angle	0	1	52.9098314
Scale Factor	0.999983447		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	22	44.0385132
Longitude	91	56	38.2638732
Ellipsoid Height (M):	4.907		0.0420
Geoid Height (M):	-25.811		0.0420

Location Description

"THE STATION MARK IS ON THE NORTH SIDE THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL. 98' SOUTH OF THE C/L OF SR-8. 31' WEST OF THE C\L OF SR-160. THE MARK IS A STANDARD 2½"" CAP STAMPED ""220035A 2018"" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/GUY	4	44.50	146.0
MK # 2				
MK # 3				

AZ Mark Station	020035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	ARCM
Ref Mon # 3	1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020036	1/26/2021	ARDOT	ASHLEY	US-82	020675, 020772

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,372.7221	0.0020
Easting (M)	444,309.2335	0.0020
Elevation (M)*		

Northing (SFT)	1,543,214.5058	
Easting (SFT)	1,457,704.5436	
Elevation (SFT)*		

Convergence Angle	0	15	58.5868393
Scale Factor	0.999999957		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	18	0.7827660
Longitude	91	31	27.2917812
Ellipsoid Height (M):	13.454		0.0190
Geoid Height (M):	-25.917		0.0190

Location Description

020036 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO WEST ON US-82 1.8 MILES TO STATION ON LEFT. 53' SOUTH OF C/L US-82. THE MARK IS A STANDARD 2½" CAP STAMPED "020036 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	255	7.31	24.0
MK # 2	TELEPHONE BOX	255	7.62	25.0
MK # 3				

AZ Mark Station	020036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020036A	1/26/2021	ARDOT	ASHLEY	US-82	020675, 020772

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,302.4362	0.0020
Easting (M)	444,989.2667	0.0020
Elevation (M)*		
Northing (SFT)	1,542,983.9094	
Easting (SFT)	1,459,935.6192	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	17	58.3980252	
Longitude	91	31	1.0193088	
Ellipsoid Height (M):	12.903			0.0190
Geoid Height (M):	-25.924			0.0190

Convergence Angle	0	16	13.2912974
Scale Factor	1.000000104		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

020036A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO WEST ON US-82 1.4 MILES TO STATION ON LEFT. 50' SOUTH OF C/L US-82. THE MARK IS A STANDARD 2½" CAP STAMPED "020036A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	130	8.84	29.0
MK # 2				
MK # 3				

AZ Mark Station	020036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020037	12/14/2021	ARDOT	Ashley	82	020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	466,357.9173	0.0010
Easting (M)	425,149.3644	0.0010
Elevation (M)*		

Northing (SFT)	1,530,042.6003	
Easting (SFT)	1,394,844.2064	
Elevation (SFT)*		

Convergence Angle	0	9	3.8554910
Scale Factor	1.000008032		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	15	52.7329296
Longitude	91	43	48.2927628
Ellipsoid Height (M):	29.050		
Geoid Height (M):	-25.776		

Location Description

To reach from the intersection of hwy 82 and hwy 160 go West for 8.5 miles to county road 68. Go northwest for 0.3 miles to county road 128. go north on county road 128 for 0.2 miles to the station on the left.The station mark is a 2 1/2in cap stamped "020037 2021" set ontop of a 4ft rebar driven 0.10 in below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	354	3.41	11.2
MK # 2				
MK # 3				

AZ Mark Station	020037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020037A	12/14/2021	ARDOT	Ashley	82	020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	465,924.6083	0.0010
Easting (M)	425,141.9360	0.0010
Elevation (M)*		

Northing (SFT)	1,528,620.9857	
Easting (SFT)	1,394,819.8350	
Elevation (SFT)*		

Convergence Angle	0	9	3.6701537
Scale Factor	1.000008942		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	15	38.6689536
Longitude	91	43	48.6239052
Ellipsoid Height (M):	28.395		
Geoid Height (M):	-25.779		

Location Description

To Reach from the intersection of hwy 82 and hwy 160 go west for 8.5 miles to county road 68. Go northwest for 0.3 miles to county road 128. Point is in the northwest corner. 34.5ft north of the CL of county road 68 and 36.5 ft west of the CL county road 128.The station mark is a 2 1/2in cap stamped "020037A 2021" set ontop of a 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	127	31.30	102.7
MK # 2				
MK # 3				

AZ Mark Station	020037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020038	12/14/2021	ARDOT	Ashley	82	020771

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	467,928.9406	0.0010
Easting (M)	428,770.0763	0.0010
Elevation (M)*		
Northing (SFT)	1,535,196.8660	
Easting (SFT)	1,406,723.1587	
Elevation (SFT)*		

Convergence Angle	0	10	22.2555014
Scale Factor	1.000004792		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	33	16	43.3939656	
Longitude	91	41	28.2153732	
Ellipsoid Height (M):	28.919			
Geoid Height (M):	-25.785			

Location Description

To reach from the Junction of hwy 82 and hwy 160. Go West on hwy 82 for 6.45 miles to county road 120. Go north on 120 for 0.3 miles to the station on the left. The mark is 25.3 ft west of the CL county road 120. The station mark is a 2 1/2 in. cap stamped "020038 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	354	2.44	8.0
MK # 2				
MK # 3				

AZ Mark Station	020038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020038A	12/14/2021	ARDOT	Ashley	82	020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	468,357.3672	0.0010
Easting (M)	428,770.4237	0.0010
Elevation (M)*		
Northing (SFT)	1,536,602.4622	
Easting (SFT)	1,406,724.2984	
Elevation (SFT)*		

Convergence Angle	0	10	22.2909694
Scale Factor	1.000003913		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	16	57.3000672
Longitude	91	41	28.1520024
Ellipsoid Height (M):	29.946		
Geoid Height (M):	-25.783		

Location Description

to reach from the Junction of hwy 82 and hwy 160. Go West on hwy 82 for 6.45 miles to county road 120. Go north on 120 for 0.55 miles to the station on the left. The mark is 24.0 ft west of the CL county road 120. The station mark is a 2 1/2 in. cap stamped "020038A 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	333	2.23	7.3
MK # 2				
MK # 3				

AZ Mark Station	020038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020039	12/14/2021	ARDOT	Ashley	82	020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	467,408.1160	0.0010
Easting (M)	431,201.4441	0.0010
Elevation (M)*		
Northing (SFT)	1,533,488.1272	
Easting (SFT)	1,414,700.0712	
Elevation (SFT)*		

Convergence Angle	0	11	14.8052860
Scale Factor	1.000005882		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	16	26.2405956
Longitude	91	39	54.3246120
Ellipsoid Height (M):	29.374		
Geoid Height (M):	-25.804		

Location Description

To reach from the junction of hwy 82 and hwy 160. Go West on hwy 82 for 4.95 miles to county road 65. Go south on hwy 65 for 0.3 miles to the station on the Left. The station is 28.6 ft east of the CL county road 65. the station mark is a 2 1/2in. Cap stamped "020039 2021" set ontop of a 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	8	25.30	83.0
MK # 2				
MK # 3				

AZ Mark Station	020039A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020039A	12/14/2021	ARDOT	Ashley	82	020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	466,881.2204	0.0010
Easting (M)	431,187.9508	0.0010
Elevation (M)*		

Northing (SFT)	1,531,759.4706	
Easting (SFT)	1,414,655.8019	
Elevation (SFT)*		

Convergence Angle	0	11	14.4762027
Scale Factor	1.000006976		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	16	9.1397496
Longitude	91	39	54.9125856
Ellipsoid Height (M):	27.169		
Geoid Height (M):	-25.806		

Location Description

To reach from the junction of hwy 82 and hwy 160. Go West on hwy 82 for 4.95 miles to county road 65. Go south on hwy 65 for 0.6 miles to the station on the right. The station is 25.2 ft west of the CL county road 65,18.7 ft. north of field entrance,62.2ft. west of the center of county road 199. the station mark is a 2 1/2in. Cap stamped "020039A 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	128	22.50	73.8
MK # 2	18" CMP	144	2.01	6.6
MK # 3				

AZ Mark Station	020039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020040	12/14/2021	ARDOT	Ashley	82	020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	468,384.9480	0.0010
Easting (M)	432,693.1830	0.0010
Elevation (M)*		
Northing (SFT)	1,536,692.9502	
Easting (SFT)	1,419,594.2179	
Elevation (SFT)*		

Convergence Angle	0	11	47.1398617
Scale Factor	1.000003882		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	16	57.7849728
Longitude	91	38	56.5523880
Ellipsoid Height (M):	29.937		
Geoid Height (M):	-25.813		

Location Description

To reach from the junction of hwy 82 and hwy 160 go west on 160 for 3.8 miles to count road 64. Go south on county road 64 for 0.4 miles to the station on the left. The station is 27.0 ft. east of the CL of county road 64. The station mark is a 2 1/2 in. cap stamped "020040 2021" set ontop of a 4 ft rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	020040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020040A	12/14/2021	ARDOT	Ashley	82	020771

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	468,816.6833	0.0010
Easting (M)	432,686.3387	0.0010
Elevation (M)*		
Northing (SFT)	1,538,109.4018	
Easting (SFT)	1,419,571.7629	
Elevation (SFT)*		

Convergence Angle	0	11	47.0238325
Scale Factor	1.000003001		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	33	17	11.7992508	
Longitude	91	38	56.7596976	
Ellipsoid Height (M):	30.300			
Geoid Height (M):	-25.812			

Location Description

To reach from the junction of hwy 82 and hwy 160 go west on 160 for 3.8 miles to count road 64. Go south on county road 64 for 0.15 miles to the station on the left. The station is 26.5 ft. east of the CL of county road 64. The station mark is a 2 1/2 in. cap stamped "020040A 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" Oak Tree	184	24.66	80.9
MK # 2				
MK # 3				

AZ Mark Station	020040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020041	12/14/2021	ARDOT	Ashley	82	020772

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	467,334.6313	0.0010
Easting (M)	438,374.9375	0.0010
Elevation (M)*		

Northing (SFT)	1,533,247.0362	
Easting (SFT)	1,438,235.1074	
Elevation (SFT)*		

Convergence Angle	0	13	49.9411959
Scale Factor	1.000006088		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	16	23.0060712
Longitude	91	35	17.1431016
Ellipsoid Height (M):	12.324		
Geoid Height (M):	-25.862		

Location Description

To reach from the junction of hwy 82 and hwy 160 go south on hwy 160 for 0.85 miles to the station on the left. The station is 27.3 ft. east of the CL hwy 160. The station mark is a 2 1/2in. Cap stamped "020041 2021" set ontop of a 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	020041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020041A	12/14/2021	ARDOT	Ashley	82	020772

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	467,725.7278	0.0010
Easting (M)	438,381.9159	0.0010
Elevation (M)*		
Northing (SFT)	1,534,530.1586	
Easting (SFT)	1,438,258.0024	
Elevation (SFT)*		

Convergence Angle	0	13	50.1261585
Scale Factor	1.000005280		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	16	35.6995632
Longitude	91	35	16.8126288
Ellipsoid Height (M):	12.847		
Geoid Height (M):	-25.862		

Location Description

To reach from the junction of hwy 82 and hwy 160 go south on hwy 160 for 0.6 miles to the station on the left. The station is 23.7 ft. east of the CL hwy 160. The station mark is a 2 1/2in. Cap stamped "020041A 2021" set ontop of a 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	020041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020042	12/14/2021	ARDOT	Ashley	82	020772

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	471,081.7335	0.0010
Easting (M)	441,594.5016	0.0010
Elevation (M)*		
Northing (SFT)	1,545,540.6540	
Easting (SFT)	1,448,797.9607	
Elevation (SFT)*		

Convergence Angle	0	14	59.9239657
Scale Factor	0.999998522		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	18	24.1931808
Longitude	91	33	12.1048056
Ellipsoid Height (M):	11.506		
Geoid Height (M):	-25.893		

Location Description

To reach from the junction of hwy 82 and hwy 160. Go east on hwy 82 for 2.3 miles to county road 151 "Lake Grampus". Go north on 151 for 0.3 miles to the station on the left. The station is 21.4 ft. west of the cl county road 151 and 16.6 ft south of a field road. The station mark is a 2 1/2in. cap stamped "020042 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fence Corner	313	2.65	8.7
MK # 2				
MK # 3				

AZ Mark Station	020042A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
020042A	12/14/2021	ARDOT	Ashley	82	020772

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,790.3092	0.0010
Easting (M)	441,587.6695	0.0010
Elevation (M)*		
Northing (SFT)	1,544,584.5394	
Easting (SFT)	1,448,775.5457	
Elevation (SFT)*		

Convergence Angle	0	14	59.7486484
Scale Factor	0.999999100		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	18	14.7349476
Longitude	91	33	12.4180452
Ellipsoid Height (M):	12.286		
Geoid Height (M):	-25.893		

Location Description

To reach from the junction of hwy 82 and hwy 160. Go east on hwy 82 for 2.3 miles to county road 151 "Lake Grampus". Go north on 151 for 0.1 miles to the station on the left. The station is 28.0 ft. west of the cl county road 151 and 67.3 ft north of a field entrance. The station mark is a 2 1/2in. cap stamped "020042A 2021" set ontop of a 4ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North Gate Post	252	17.95	58.9
MK # 2				
MK # 3				

AZ Mark Station	020042
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030001	6/21/1994	AHTD	BAXTER	5	9952,090319,012231,090647

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	221,903.3108	0.0020
Easting (M)	366,531.4334	0.0020
Elevation (M)*	230.145	0.0047
Northing (SFT)	728,027.7788	
Easting (SFT)	1,202,528.5444	
Elevation (SFT)*	755.069	

Convergence Angle	0	13	0.8789946
Scale Factor			1.000021194
Elevation Adjust. Factor			0.9999638840
Combined Adjust. Factor			0.9999850772

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	19	58.2941424
Longitude	92	22	21.9496332
Ellipsoid Height:			201.742
Grid Northing (Meters)			221,903.3103
Grid Easting (Meters)			366,531.4194

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	19	58.2941604	
Longitude	92	22	21.9490716	
Ellipsoid Height (M):			201.655	0.0130
Geoid Height (M):			-28.364	

Location Description

FROM THE COURTHOUSE IN MOUNTAIN HOME, GO SOUTH ON HWY. 5 (WHICH IS ALSO 9TH STREET), FOR 1.44 KM (0.90 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.20 METERS NORTH OF THE CENTERLINE OF HWY. 5, 2.70 METERS SOUTH OF A CHAIN LINK FENCE AROUND A MINI STORAGE FACILITY AND 0.88 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "030001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2" CORNER POST IN CHAIN LINK FENCE	2	2.70	8.9
MK # 2	NBC IN COMBINATION POLE	276	18.60	61.0
MK # 3	NBC IN COMBINATION POLE	81	24.90	81.7

AZ Mark Station	030001A
Geodetic Azimuth	93 11 49.8948
Grid Azimuth	93 24 50.85573

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	FLIPPORT
Ref Mon # 3	NONE

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB
012231.
SUPERCEDED*****ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 38 RESET DURING JOB 090319.*****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030001A	6/21/1994	AHTD	BAXTER	5	9952,090319,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	221,880.7548	0.0040
Easting (M)	366,909.6273	0.0040
Elevation (M)*	229.979	
Northing (SFT)	727,953.7764	
Easting (SFT)	1,203,769.3356	
Elevation (SFT)*	754.524	

Convergence Angle	0	12	52.0531977
Scale Factor	1.000021151		
Elevation Adjust. Factor	0.9999639100		
Combined Adjust. Factor	0.9999850603		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:	GEOID12A		
Latitude	36	19	57.6085944
Longitude	92	22	6.7818432
Ellipsoid Height (M):	201.490	0.0140	
Geoid Height (M):	-28.362		

Location Description

FROM THE COURTHOUSE IN MOUNTAIN HOME, GO SOUTH ON HWY. 5 (WHICH IS ALSO 9TH STREET), FOR 1.94 KM (1.21 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS SOUTH OF THE CENTERLINE OF HWY. 5, 6.70 METERS WEST OF THE CENTER OF WAVERLY ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "030001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	112	13.60	44.6
MK # 2	NBC IN COMBINATION POLE	248	13.15	43.1
MK # 3	NONE			

AZ Mark Station	030001
Geodetic Azimuth	273 11 58.88115
Grid Azimuth	273 24 50.85573

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	FLIPPORT
Ref Mon # 3	NONE

Comments

Cross Reference Jobs: 009942 and 009973

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030002	6/21/1994	AHTD	BAXTER	5	9952

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	223,529.0961	
Easting (M)	364,565.8630	
Elevation (M)*	276.722	
Northing (SFT)	733,361.7095	
Easting (SFT)	1,196,079.8355	
Elevation (SFT)*	907.879	

Convergence Angle	0	13	46.8907079
Scale Factor	1.000024553		
Elevation Adjust. Factor	0.9999565752		
Combined Adjust. Factor	0.9999811271		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	20	50.7886872
Longitude	92	23	41.0207028
Ellipsoid Height (M):	247.576		
Geoid Height (M):	-29.144		

Location Description

FROM THE COURTHOUSE IN MOUNTAIN HOME, GO NORTH ON HWY. 5 (WHICH IS ALSO 9TH STREET), FOR 1.802 KM (1.12 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 14.4 METERS NORTHEAST OF THE CENTERLINE OF HWY. 5, 19.6 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A BRICK BUILDING AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "030002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	301	30.30	99.4
MK # 2	NBC IN COMBINATION POLE	155	18.65	61.2
MK # 3	"PHILLIPS 66" METAL SIGN POST	145	16.65	54.6

AZ Mark Station	030002A
Geodetic Azimuth	308 37 10.04250
Grid Azimuth	308 50 56.87592

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	FLIPPORT
Ref Mon # 3	NONE

Comments

Cross Reference Jobs: 009942 and 009973

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030002A	6/21/1994	AHTD	BAXTER	5	9952

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	223,741.7010	
Easting (M)	364,301.8990	
Elevation (M)*	290.438	
Northing (SFT)	734,059.2307	
Easting (SFT)	1,195,213.8136	
Elevation (SFT)*	952.879	

Convergence Angle	0	13	53.0705416
Scale Factor	1.000024997		
Elevation Adjust. Factor	0.9999544229		
Combined Adjust. Factor	0.9999794187		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	Level - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	20	57.6514428
Longitude	92	23	51.6408144
Ellipsoid Height (M):	261.292		
Geoid Height (M):	-29.146		

Location Description

FROM THE COURTHOUSE IN MOUNTAIN HOME, GO NORTH ON HWY-5 (WHICH IS ALSO 9TH STREET), FOR 2.124 KM (1.32 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.2 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 5 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "030002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	315	25.85	84.8
MK # 2	NBC IN POWER POLE	129	29.20	95.8
MK # 3	NONE			

AZ Mark Station	030002
Geodetic Azimuth	128 37 03.74803
Grid Azimuth	128 50 56.87592

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	FLIPPORT
Ref Mon # 3	NONE

Comments

Cross Reference Jobs: 009942 and 009973

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030003	11/1/1999	AHTD	BAXTER	412	R90095,R90097

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	216,460.8990	
Easting (M)	353,146.5340	
Elevation (M)*	179.514	
Northing (SFT)	710,172.1328	
Easting (SFT)	1,158,614.9203	
Elevation (SFT)*	588.956	

Convergence Angle	0	18	12.4940638
Scale Factor	1.000010256		
Elevation Adjust. Factor	0.9999718292		
Combined Adjust. Factor	0.9999820849		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	16	59.7599868	
Longitude	92	31	17.4629676	
Ellipsoid Height (M):	151.085			
Geoid Height (M):	-28.359			

Location Description

TO REACH THE STATION FROM THE JUNCTION 0F U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 9.17 KM (5.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.40 METERS EAST OF THE CENTER OF A PAVED ENTRANCE, 14.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.63 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030003 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 828.120 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	450001
Geodetic Azimuth	282 26 54.37047
Grid Azimuth	282 45 06.70437

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030004	5/30/2001	AHTD	BAXTER	62	R90094,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	224,692.0523	0.0030
Easting (M)	369,718.7955	0.0030
Elevation (M)*	271.035	
Northing (SFT)	737,177.1749	
Easting (SFT)	1,212,985.7482	
Elevation (SFT)*	889.221	

Convergence Angle	0	11	46.7359288
Scale Factor			1.000027049
Elevation Adjust. Factor			0.9999574676
Combined Adjust. Factor			0.9999845154

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	21	29.1381048
Longitude	92	20	14.5345848
Ellipsoid Height:			242.722
Grid Northing (Meters)			224,692.0515
Grid Easting (Meters)			369,718.7660

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	21	29.1381336	
Longitude	92	20	14.5334040	
Ellipsoid Height (M):			242.561	0.0140
Geoid Height (M):			-28.368	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, HIGHWAY 62B AND U.S. HIGHWAY 412 EAST, LOCATED ON THE EAST SIDE OF MOUNTAIN HOME, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 0.145 KM. (0.09 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST OF THE CENTERLINE OF WEST BOUND U.S. HIGHWAY 62, 11.11 METERS WEST OF THE CENTERLINE OF EAST BOUND U.S. HIGHWAY 62, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030004 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.248 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	030004A
Geodetic Azimuth	180 42 11.89088
Grid Azimuth	180 53 58.62611

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	CRAWFORD
Ref Mon # 3	HOMEPORT

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030004A	5/30/2001	AHTD	BAXTER	62	R90094,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	224,172.8786	0.0030
Easting (M)	369,710.6337	0.0030
Elevation (M)*	261.787	
Northing (SFT)	735,473.8525	
Easting (SFT)	1,212,958.9707	
Elevation (SFT)*	858.880	

Convergence Angle	0	11	46.8848905
Scale Factor			1.000025948
Elevation Adjust. Factor			0.9999589188
Combined Adjust. Factor			0.9999848657

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	21	12.2941584
Longitude	92	20	14.7902028
Ellipsoid Height:			233.481
Grid Northing (Meters)			224,172.8686
Grid Easting (Meters)			369,710.6135

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	21	12.2944860	
Longitude	92	20	14.7893964	
Ellipsoid Height (M):			233.317	0.0140
Geoid Height (M):			-28.364	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 , HIGHWAY 62B AND U.S. HIGHWAY 412 EAST, LOCATED ON THE EAST SIDE OF MOUNTAIN HOME, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 0.644 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.71 METERS EAST OF THE CENTER LINE OF WEST BOUND U.S. HIGHWAY 62, 14.65 METERS WEST OF THE CENTER LINE OF EAST BOUND U.S. HIGHWAY 62 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030004A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.248 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	030004
Geodetic Azimuth	0 42 11.739354
Grid Azimuth	0 53 58.626106

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	CRAWFORD
Ref Mon # 3	HOMEPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030005	5/30/2001	AHTD	BAXTER	62	R90094

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	226,053.9459	
Easting (M)	375,970.7919	
Elevation (M)*		
Northing (SFT)	741,645.3208	
Easting (SFT)	1,233,497.5064	
Elevation (SFT)*		

Convergence Angle	0	9	20.9072355
Scale Factor	1.000030008		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	22	13.9430640
Longitude	92	16	3.9252036
Ellipsoid Height (M):	211.273		
Geoid Height (M):	-28.299		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 , U.S HIGHWAY 412 AND STATE HIGHWAY 101 NORTH, LOCATED ABOUT 5 MILES EAST OF MOUNTAIN HOME GO EAST ON U.S. HIGHWAY 62 FOR 0.467 KM (0.29 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.17 METERS NORTHEAST OF THE CENTER LINE OF ROBINSON POINT ROAD, 15.62 METERS SOUTHWEST OF THE OF THE CENTER OF U.S. HIGHWAY 62/412 AND 0.50 METERS NORTHEAST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 443.022 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	190	10.00	32.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	030005A
Geodetic Azimuth	317 31 34.15729
Grid Azimuth	317 40 54.99781

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	CRAWFORD
Ref Mon # 3	HOMEPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030005A	5/30/2001	AHTD	BAXTER	62	R90094

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	226,381.5240
Easting (M)	375,672.5301
Elevation (M)*	
Northing (SFT)	742,720.0500
Easting (SFT)	1,232,518.9592
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	22	24.5436420
Longitude	92	16	15.9260124
Ellipsoid Height (M):	214.169		
Geoid Height (M):	-28.304		

Convergence Angle	0	9	27.8904956
Scale Factor	1.000030715		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, U.S. HIGHWAY 412 AND STATE HIGHWAY 101 NORTH LOCATED ABOUT 5 MILES FROM MOUNTAIN HOME GO EAST ON U.S. 62 FOR 21 METERS TO THE STATION ON THE RIGHT. THE STATION IS 10.61 MILES EAST OF THE CENTER LINE ON ROBINSON POINT ROAD, 12.85 MILES SOUTHWEST OF THE CENTER LINE ON U.S. HIGHWAY 62/412, 0.50 MILES NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 443.022 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	030005
Geodetic Azimuth	137 31 27.04050
Grid Azimuth	137 40 54.99781

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	CRAWFORD
Ref Mon # 3	HOMEPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030006	8/27/2003	AHTD	BAXTER	201	009814

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	236,209.7632
Easting (M)	367,502.4930
Elevation (M)*	
Northing (SFT)	774,964.8648
Easting (SFT)	1,205,714.4291
Elevation (SFT)*	
Convergence Angle	0 12 39.4517191
Scale Factor	1.000053162
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 27 42.5251080
Longitude	92 21 45.1260648
Ellipsoid Height (M):	167.559
Geoid Height (M):	-28.360

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 201 AND THE ARKANSAS MISSOURI STATE LINE, NORTH OF MOUNTAIN HOME, GO SOUTH ON HIGHWAY 201 2.8 MILES TO THE STATION MARK ON THE LEFT, 14.50 METERS SOUTH OF THE CENTERLINE AND NORTH 1.75 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030006 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	030006A
Geodetic Azimuth	66 08 41
Grid Azimuth	66 21 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	Crawford
Ref Mon # 2	Butler
Ref Mon # 3	Conway CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030006A	8/27/2003	AHTD	BAXTER	201	009814

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	236,348.8521
Easting (M)	367,820.1850
Elevation (M)*	
Northing (SFT)	775,421.1923
Easting (SFT)	1,206,756.7236
Elevation (SFT)*	

Convergence Angle	0	12	32.0393211
Scale Factor	1.000053500		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	27	47.0749068
Longitude	92	21	32.3877780
Ellipsoid Height (M):	175.040		
Geoid Height (M):	-28.362		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 201 AND THE ARKANSAS MISSOURI STATE LINE, NORTH OF MOUNTAIN HOME, GO SOUTH ON HIGHWAY 201 2.65 MILES TO THE STATION MARK ON THE LEFT, 7.50 METERS NORTWEST OF THE CENTERLINE AND SOUTHEAST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "030006A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	030006
Geodetic Azimuth	246 08 48
Grid Azimuth	246 21 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	Crawford
Ref Mon # 2	Butler
Ref Mon # 3	Conway CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030007	4/15/2008	AHTD	Baxter	177	090223

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	208,194.2490
Easting (M)	385,587.9250
Elevation (M)*	263.965
Northing (SFT)	683,050.6319
Easting (SFT)	1,265,049.7173
Elevation (SFT)*	866.026

Convergence Angle	0	5	35.7390743
Scale Factor			0.999995433
Elevation Adjust. Factor			0.9999585770
Combined Adjust. Factor			0.9999540102

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	35.2101780
Longitude	92	9	36.9712620
Ellipsoid Height (M):	235.655		
Geoid Height (M):	-28.074		

Location Description

To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 0.09 miles to the station on the left. 34.0 feet southwest of the center of the highway and 4.60 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "030007 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	R/W marker	139	19.11	62.7
MK # 2	Wooden fence post	218	1.52	5.0
MK # 3	Wooden fence post	300	5.49	18.0

AZ Mark Station	030007A
Geodetic Azimuth	324 08 56
Grid Azimuth	324 14 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARMH
Ref Mon # 3	ARHR, C 39, L 38

Comments

Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030007A	4/15/2008	AHTD	Izard	177	090223

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	208,610.5930
Easting (M)	385,288.1150
Elevation (M)*	262.975
Northing (SFT)	684,416.5872
Easting (SFT)	1,264,066.0906
Elevation (SFT)*	862.778

Convergence Angle	0	5	42.7394555
Scale Factor			0.999996149
Elevation Adjust. Factor			0.9999587323
Combined Adjust. Factor			0.9999548815

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	12	48.7017792	
Longitude	92	9	49.0014936	
Ellipsoid Height (M):	234.671			
Geoid Height (M):	-28.080			

Location Description

To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 0.40 miles to the station on the left. 28.5.0 feet southwest of the center of the highway, 53.0 northwest of a paved driveway and 1.50 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "030007A 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface. The station is located in the grass area between the two driveways of the liquor store

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	120	3.51	11.5
MK # 2	!2 inch metal pipe	100	10.52	34.5
MK # 3	Liquor store sign	280	24.99	82.0

AZ Mark Station	030007
Geodetic Azimuth	144 08 49
Grid Azimuth	144 14 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARMH
Ref Mon # 3	ARHR, C 39, L 38

Comments

Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030008	4/15/2008	AHTD	Baxter	177	090223,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	211,451.8537	0.0030
Easting (M)	379,608.2493	0.0030
Elevation (M)*	209.794	
Northing (SFT)	693,738.2900	
Easting (SFT)	1,245,431.3979	
Elevation (SFT)*	688.299	

Convergence Angle	0	7	55.2140980
Scale Factor	1.000001135		
Elevation Adjust. Factor	0.9999670776		
Combined Adjust. Factor	0.9999682125		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	14	20.5159560
Longitude	92	13	36.6602268
Ellipsoid Height:	181.630		
Grid Northing (Meters)	211,451.8550		
Grid Easting (Meters)	379,608.2590		

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	14	20.5159128
Longitude	92	13	36.6606120
Ellipsoid Height (M):	181.502		0.0140
Geoid Height (M):	-28.247		

Location Description

To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 4.80 miles to the station on the right. 35.0 feet northeast of the center of the highway 204.0 feet southeast of "Jennings Cove drive" and 1.50 feet west of a witness post The station mark is a 2 1/2 inch cap stamped "030008 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser	270	32.31	106.0
MK # 2	Telephone pole	165	39.62	130.0
MK # 3				

AZ Mark Station	030008A
Geodetic Azimuth	318 27 55
Grid Azimuth	318 35 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARMH
Ref Mon # 3	ARHR, C 39, L 38

Comments

Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030008A	4/15/2008	AHTD	Baxter	177	090223,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	211,900.2196	0.0030
Easting (M)	379,212.9137	0.0030
Elevation (M)*	197.484	
Northing (SFT)	695,209.3038	
Easting (SFT)	1,244,134.3677	
Elevation (SFT)*	647.911	

Convergence Angle	0	8	4.4515996
Scale Factor			1.000001942
Elevation Adjust. Factor			0.9999690093
Combined Adjust. Factor			0.9999709513

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	14	35.0326068
Longitude	92	13	52.5347472
Ellipsoid Height:			169.313
Grid Northing (Meters)			211,900.2260
Grid Easting (Meters)			379,212.9290

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	14	35.0323980	
Longitude	92	13	52.5353592	
Ellipsoid Height (M):			169.191	0.0140
Geoid Height (M):			-28.256	

Location Description

To reach the station from the Baxter and Izard county lines on Hwy-177 south of Jordan go north on 177 for 5.20 miles to the station on the left. 35.0 feet southwest of the center of the highway and 10.0 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "030008A 2008" set on top of a 5/8 inch by 4.00 foot long rebar and is .02 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Transmission line pole	164	34.75	114.0
MK # 2	15 inch cedar tree	284	27.13	89.0
MK # 3				

AZ Mark Station	030008
Geodetic Azimuth	138 27 46
Grid Azimuth	138 35 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARMH
Ref Mon # 3	ARHR, C 39, L 38

Comments

Digital Levels ran by crew S5102 in May 2008 from 3rd order USGS mark 5 EJD 1960 706.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030009	5/13/2010	AHTD	BAXTER	5	090281,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	209,235.8500	0.0030
Easting (M)	374,439.5804	0.0030
Elevation (M)*	143.835	
Northing (SFT)	686,467.9512	
Easting (SFT)	1,228,473.8567	
Elevation (SFT)*	471.898	

Convergence Angle	0	9	55.5162615	
Scale Factor			0.999997190	
Elevation Adjust. Factor			0.9999774281	
Combined Adjust. Factor			0.9999746182	

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)	
Latitude	36	13	8.1869520	
Longitude	92	17	3.4014084	
Ellipsoid Height:			115.632	
Grid Northing (Meters)			209,235.8590	
Grid Easting (Meters)			374,439.5750	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	13	8.1866604	
Longitude	92	17	3.4011924	
Ellipsoid Height (M):			115.462	0.0140
Geoid Height (M):			-28.281	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 341 AND STATE HIGHWAY 5, NORTH OF NORTHFORK, GO SOUTH ON HIGHWAY 5 350.7 FEET TO THE STATION MARK ON THE RIGHT, WEST 36.7 FEET OF THE CEENTERLINE OF THE HIGHWAY AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2010 030009" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	2	30.08	98.7
MK # 2	POWER POLE WITH GUY	116	20.57	67.5
MK # 3				

AZ Mark Station	030009A
Geodetic Azimuth	339 39 36
Grid Azimuth	339 49 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	MOWS

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.
SUPERCEDED****3 WIRE DIGITIAL LEVELS RAN BY CREW S5112 ON 5/2010 FROM NGS BENCH MARK C 39 THRU D 39.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030009-1	9/14/2010	AHTD	Baxter	341	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	198,291.0869
Easting (M)	373,182.7190
Elevation (M)*	214.064
Northing (SFT)	650,560.0076
Easting (SFT)	1,224,350.3039
Elevation (SFT)*	702.308

Convergence Angle	0	10	24.0274625
Scale Factor			0.999979607
Elevation Adjust. Factor			0.9999664075
Combined Adjust. Factor			0.9999460152

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	12.9770796
Longitude	92	17	52.3980024
Ellipsoid Height (M):	186.003		
Geoid Height (M):	-28.061		

Location Description

To reach from the junction of highway 14 and 341 east of Big Flat, go north 13.1 miles on highway 341 to the station on the right, 22 ft southeast of center of highway 341, 24ft south of center of driveway, and 19ft northwest of witness post. The station mark is a 2 1/2 inch cap stamped "030009, 2010" set in top of a 5/8 inch by 4 foot long rebar, and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Gate Post	75	7.32	24.0
MK # 2	24"CMP	190	1.83	6.0
MK # 3				

AZ Mark Station	030009A
Geodetic Azimuth	24 57 16
Grid Azimuth	25 07 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030009A	5/13/2010	AHTD	BAXTER	341	090281,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	209,871.5826	0.0030
Easting (M)	374,205.9926	0.0030
Elevation (M)*	129.413	
Northing (SFT)	688,553.6839	
Easting (SFT)	1,227,707.4941	
Elevation (SFT)*	424.582	

Convergence Angle	0	10	1.0016023
Scale Factor			0.999998301
Elevation Adjust. Factor			0.9999796913
Combined Adjust. Factor			0.9999779923

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	13	28.7898924
Longitude	92	17	12.8277564
Ellipsoid Height:			180.496
Grid Northing (Meters)			209,871.5840
Grid Easting (Meters)			374,205.9940

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	13	28.7898492	
Longitude	92	17	12.8278104	
Ellipsoid Height (M):			101.039	0.0140
Geoid Height (M):			-28.286	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 201 AND STATE HIGHWAY 5, NORTH OF NORFORK, GO NORTH ON HIGHWAY 201 0.35 MILES TO THE STATION MARK ON THE RIGHT, 24.5 FEET NORTHWEST OF THE CENTERLINE OF AN ASPHALT DRIVE , NORTH 28 FEET OF THE CEENTERLINE OF THE HIGHWAY AND SOUTH 39 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED ""2010 030009A"" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PRIVATE ANTENNA TOWER	206	55.66	182.6
MK # 2	NORTHWEST END OF GATE	55	14.69	48.2
MK # 3	NORTHWEST END OF 36 INCH CMP	354	4.57	15.0

AZ Mark Station	030009
Geodetic Azimuth	159 39 30
Grid Azimuth	159 49 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	MOWS

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB
012231.
SUPERCEDED*****3WIRE DIGITIAL LEVELS RAN BY CREW S5112 ON 5/2010 FROM NGS BENCH MARK C 39 THRU D 39.*****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030009A-1	9/14/2010	AHTD	Baxter	341	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	198,632.5360	
Easting (M)	373,342.8680	
Elevation (M)*	208.562	
Northing (SFT)	651,680.2452	
Easting (SFT)	1,224,875.7261	
Elevation (SFT)*	684.257	

Convergence Angle	0	10	20.3247755
Scale Factor	0.999980111		
Elevation Adjust. Factor	0.9999672709		
Combined Adjust. Factor	0.9999473825		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	24.0708144
Longitude	92	17	46.0348944
Ellipsoid Height (M):	101.204		
Geoid Height (M):	-28.202		

Location Description

To reach from the junction of highway 14 and 341 east of Big Flat, go north 13.3 miles on highway 341 to the station on the left, 22ft east of the center line of highway 341, 1.5ft west from the witness post. The station mark is a 2 1/2 inch cap stamped "030009A, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South end of guard rail	185	12.80	42.0
MK # 2	Center of 4x4 ft twin box culvert	355	25.91	85.0
MK # 3				

AZ Mark Station	030009
Geodetic Azimuth	204 57 20
Grid Azimuth	205 07 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030010	9/14/2010	AHTD	Baxter	CR 73	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	199,978.1059	
Easting (M)	374,265.4380	
Elevation (M)*	244.493	
Northing (SFT)	656,094.8358	
Easting (SFT)	1,227,902.5245	
Elevation (SFT)*	802.141	

Convergence Angle	0	9	58.9471581
Scale Factor	0.999982127		
Elevation Adjust. Factor	0.9999616325		
Combined Adjust. Factor	0.9999437602		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	7.8152028
Longitude	92	17	9.2972256
Ellipsoid Height (M):	216.408		
Geoid Height (M):	-28.086		

Location Description

To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distace from town of Lone Rock, go northeast for 1.1 miles on county road 73 to the station on the right, 20.5ft south of center of county road 73, 2.ft north of white wooden fence, 2.ft north of witness post. The station mark is a 2 1/2 inch cap stamped "030010, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	20' Pine Tree	234	14.02	46.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030011A	9/14/2010	AHTD	Baxter	CR 73	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	200,447.2150	
Easting (M)	377,286.3520	
Elevation (M)*	124.391	
Northing (SFT)	657,633.9045	
Easting (SFT)	1,237,813.6399	
Elevation (SFT)*	408.106	

Convergence Angle	0	8	48.6666048
Scale Factor	0.999982852		
Elevation Adjust. Factor	0.9999804794		
Combined Adjust. Factor	0.9999633317		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	23.3029356
Longitude	92	15	8.5193280
Ellipsoid Height (M):	96.310		
Geoid Height (M):	-28.081		

Location Description

To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distace from town of Lone Rock, go northeast for 3.2 miles on county road 73 to the station on the station on the left, 20.ft east of center line of county road 73, 1.5ft west of witness post. The station mark is a 2 1/2 inch cap stamped "030011A, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Northwest of corner of bridge	170	36.27	119.0
MK # 2	Combination Pole	317	25.30	83.0
MK # 3	18' triple sweetgum tree	350	20.12	66.0

AZ Mark Station	030011
Geodetic Azimuth	57 42 23
Grid Azimuth	57 51 12

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030012	9/14/2010	AHTD	Baxter	CR 73	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	198,901.0500	
Easting (M)	378,034.1930	
Elevation (M)*	232.968	
Northing (SFT)	652,561.1949	
Easting (SFT)	1,240,267.1815	
Elevation (SFT)*	764.329	

Convergence Angle	0	8	31.1712794
Scale Factor	0.999980528		
Elevation Adjust. Factor	0.9999634411		
Combined Adjust. Factor	0.9999439698		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	33.2000292
Longitude	92	14	38.4534204
Ellipsoid Height (M):	204.916		
Geoid Height (M):	-28.053		

Location Description

To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distace from town of Lone Rock, go northeast for 4.4 miles on county road 73 to the station on the station on the right, 27.ft southwest of center line of county road 73, 1.5ft northeast of wittness post. The station mark is a 2 1/2 inch cap stamped "030012, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030013	9/14/2010	AHTD	Baxter	CR 73	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	198,244.6649	
Easting (M)	379,367.2200	
Elevation (M)*	209.947	
Northing (SFT)	650,407.7048	
Easting (SFT)	1,244,640.6210	
Elevation (SFT)*	688.801	

Convergence Angle	0	8	0.1146672
Scale Factor	0.999979563		
Elevation Adjust. Factor	0.9999670536		
Combined Adjust. Factor	0.9999466172		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	12.0079992
Longitude	92	13	45.0822936
Ellipsoid Height (M):	181.912		
Geoid Height (M):	-28.035		

Location Description

To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distace from town of Lone Rock, go northeast for 5.5 miles on county road 73 to the station on the left in driveway to pasture, 10 feet south of the center of the driveway, 32 feet east of the ceter of county road 73, 1.5 feet north of the witness post. The station mark is a 2 1/2 inch cap stamped "030013, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North fence corner of gate	75	2.53	8.3
MK # 2	End of 18" CMP	251	4.88	16.0
MK # 3	Combination Pole	180	3.90	12.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030014	9/16/2010	AHTD	Baxter	CR 73	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,945.9159	
Easting (M)	380,747.3340	
Elevation (M)*	160.516	
Northing (SFT)	646,146.7257	
Easting (SFT)	1,249,168.5450	
Elevation (SFT)*	526.626	

Convergence Angle	0	7	27.9345668
Scale Factor			0.999977680
Elevation Adjust. Factor			0.9999748104
Combined Adjust. Factor			0.9999524910

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	29.9715876
Longitude	92	12	49.7804400
Ellipsoid Height (M):	132.509		
Geoid Height (M):	-28.007		

Location Description

To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distace from town of Lone Rock, go northeast for 6.9 miles on county road 73 to the station on the left, 128 feet east of the centerline of CR 73 and 13 feet south of the center of the driveway. The station mark is a 2 1/2 inch cap stamped "030014, 2010" set in top of a rock outcropping in the yard by the garden area.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southeast corner of 1 story frame house	326	18.44	60.5
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	Mona
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030015	9/16/2010	AHTD	Baxter	CR 73	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,249.9430	
Easting (M)	381,700.5590	
Elevation (M)*	161.605	
Northing (SFT)	643,863.3547	
Easting (SFT)	1,252,295.9173	
Elevation (SFT)*	530.199	

Convergence Angle	0	7	5.7233761
Scale Factor			0.999976689
Elevation Adjust. Factor			0.9999746395
Combined Adjust. Factor			0.9999513291

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	7.4565828
Longitude	92	12	11.6102664
Ellipsoid Height (M):	133.614		
Geoid Height (M):	-27.991		

Location Description

To reach from the junction of highway 341 and county road 73, about 4.5 miles air line distace from town of Lone Rock, go northeast for 7.8 miles on county road 73 to the station on the left, 22 feet north of the centerline of CR 73 and 2 feet south of the witness post, 2 feet north of a 2-strand barbed wire, 3 foot web-wire fence. The station mark is a 2 1/2 inch cap stamped "030015, 2010" set in top of a 5/8 inch by 4ft rebar and is 0.20 ft below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	15 inch pine tree	287	21.95	72.0
MK # 2	24 inch pine tree	80	16.45	54.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030016	9/7/2011	AHTD	Baxter	62	090319,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	219,973.0474	0.0040
Easting (M)	364,967.3153	0.0040
Elevation (M)*	214.086	
Northing (SFT)	721,694.9063	
Easting (SFT)	1,197,396.9336	
Elevation (SFT)*	702.379	

Convergence Angle	0	13	37.1937500
Scale Factor	1.000017260		
Elevation Adjust. Factor	0.9999664041		
Combined Adjust. Factor	0.9999836636		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	18	55.4763888
Longitude	92	23	24.3571020
Ellipsoid Height:	185.674		
Grid Northing (Meters)	219,973.0473		
Grid Easting (Meters)	364,967.2972		

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	36	18	55.4763924
Longitude	92	23	24.3563748
Ellipsoid Height (M):	185.595		0.0140
Geoid Height (M):	-28.366		

Location Description

Starting at the intersection of 201 and 62 bypass in mountain home go west approx. .08 miles to the end of dodd creek bridge and the station on the left. 8.47 meters south of the center of the west bound lane of 62 and 2.37 meters south of witness post. The station is a standard 2.5 in. cap stamped 030016 2011 on top of a 1.22 meter 5/8's rebar and driven flush with the ground.

Latitude 36.18.56
Longitude 092.23.25

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	West of fence	129.00.00	3.28	10.8
MK # 2	North of center of concrete ditch pavement	215.00.00	4.82	15.8
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030016A	9/7/2011	AHTD	Baxter	62	090319,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	220,343.3217	0.0040
Easting (M)	364,628.4357	0.0040
Elevation (M)*	228.405	
Northing (SFT)	722,909.7146	
Easting (SFT)	1,196,285.1261	
Elevation (SFT)*	749.358	

Convergence Angle	0	13	45.1331293
Scale Factor			1.000018002
Elevation Adjust. Factor			0.9999641571
Combined Adjust. Factor			0.9999821585

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	19	7.4450244
Longitude	92	23	38.0010084
Ellipsoid Height:			199.992
Grid Northing (Meters)			220,343.3221
Grid Easting (Meters)			364,628.4177

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	19	7.4450136	
Longitude	92	23	38.0002848	
Ellipsoid Height (M):			199.912	0.0140
Geoid Height (M):			-28.368	

Location Description

Starting at the Intersection of 201 and 62 bypass go west approx. .375 miles to the station on the left. The station is 18.59 meters north of the center of the west bound lane of 62, set 1.46 meters south of the witness post. The station is a standard 2.5 in cap stamped 030016A 2011 on top of a 1 meter long 5/8's rebar and driven flush with the ground.

Latitude 36.19.07
Longitude 092.23.38

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North of Highway 62	220.00.00	18.59	61.0
MK # 2	South of brace post	32.00.00	1.52	5.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030017	3/9/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	203,618.2837	0.0030
Easting (M)	379,922.7227	0.0030
Elevation (M)*	187.104	0.0026
Northing (SFT)	668,037.6524	
Easting (SFT)	1,246,463.1327	
Elevation (SFT)*	613.857	

Convergence Angle	0	7	47.4718261
Scale Factor	0.999987820		
Elevation Adjust. Factor	0.9999706382		
Combined Adjust. Factor	0.9999584585		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	10	6.3915096
Longitude	92	13	23.3554332
Ellipsoid Height (M):	158.827	0.0150	
Geoid Height (M):	-28.185		

Location Description

FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINE WITH HWY. 5 GO NORTH ALONG HWY. 5 0.96 MILES TO THE INTERSECTION OF HWY. 5 AND ALYSA LANE. TURN RIGHT (NORTHEASTERLY) ON ALYSA LANE AND GO 110 FEET TO THE STATION MARK ON THE LEFT, BEING 11.4 FEET NORTHWEST OF THE CENTERLINE OF A DIRT ROAD (ALYSA LANE) AND 1.0 FEET WEST OF A WITNESS POST AND SIGN. THE STATION MARK IS STANDARD 2-1/2" ALUMINUM CAP STAMPED "030017", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTERLINE HIGHWAY 5	255	32.52	106.7
MK # 2	36" OAK TREE	100	14.78	48.5
MK # 3	LIGHT POLE	80	3.05	10.0

AZ Mark Station	030017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030017A	3/9/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	203,944.0338	0.0030
Easting (M)	379,616.8956	0.0020
Elevation (M)*	203.546	
Northing (SFT)	669,106.3842	
Easting (SFT)	1,245,459.7650	
Elevation (SFT)*	667.800	

Convergence Angle	0	7	54.6100162	
Scale Factor	0.999988342			
Elevation Adjust. Factor	0.9999680581			
Combined Adjust. Factor	0.9999564004			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	10	16.9374216
Longitude	92	13	35.6224908
Ellipsoid Height (M):	175.257	0.0140	
Geoid Height (M):	-28.190		

Location Description

FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINE WITH HWY. 5 GO NORTH ALONG HWY. 5 1.23 MILES TO THE STATION MARK ON THE RIGHT, BEING 55.4 FEET NORTHWEST OF THE CENTERLINE OF HWY. 5 AND 1.0 FEET SOUTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030017A" SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTERLINE HIGHWAY 5	230	16.89	55.4
MK # 2	POWER POLE	185	8.63	28.3
MK # 3	POWER POLE	315	2.65	8.7

AZ Mark Station	030017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030018	3/10/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	205,950.5483	0.0020
Easting (M)	378,491.6286	0.0020
Elevation (M)*	249.379	0.0022
Northing (SFT)	675,689.4239	
Easting (SFT)	1,241,767.9515	
Elevation (SFT)*	818.171	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	11	21.9497892	
Longitude	92	14	20.8444560	
Ellipsoid Height (M):	221.065			0.0130
Geoid Height (M):	-28.209			

Convergence Angle	0	8	20.9246383
Scale Factor	0.999991620		
Elevation Adjust. Factor	0.9999608659		
Combined Adjust. Factor	0.9999524862		

Location Description

FROM THE NORFORK, AR. POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST., GO SOUTH ALONG HWY 5 3.61 MILES TO THE INTERSECTION OF HWY. 5 AND BAXTER COUNTY ROAD 67 (HAVNER RD.) TURN LEFT (EASTERNLY) ON BAXTER COUNTY ROAD 67 AND GO 420 FEET TO THE STATION MARK ON THE RIGHT, BEING 29.7 FEET SOUTH OF THE CENTERLINE OF BAXTER COUNTY ROAD 67 AND 1.5 FEET NORTH OF A WITNESS POST AND SIGN, THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030018" SET ON TOP OF A 5/8" REBAR.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	22" OAK TREE	345	16.25	53.3
MK # 2	CL BAXTER CO RD 67	355	9.05	29.7
MK # 3	BARBED WIRE FENCE	170	1.74	5.7

AZ Mark Station	030018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030018A	3/10/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,144.3799	0.0020
Easting (M)	378,224.7950	0.0020
Elevation (M)*	237.910	
Northing (SFT)	676,325.3531	
Easting (SFT)	1,240,892.5149	
Elevation (SFT)*	780.542	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	11	28.2172200	
Longitude	92	14	31.5431556	
Ellipsoid Height (M):	209.599			0.0130
Geoid Height (M):	-28.212			

Convergence Angle	0	8	27.1502023
Scale Factor	0.999991941		
Elevation Adjust. Factor	0.9999626656		
Combined Adjust. Factor	0.9999546069		

Location Description

FROM THE NORFORK, AR POST OFFICE AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST. GO SOUTH ALONG HWY 5: 3.47 MILES TO THE STATION MARK ON THE RIGHT, BEIGN 35.5 FEET SOUTHWEST OF THE CENTERLINE OF HWY. 5 AND 1.0 FEET EAST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030018A" SET ON TOP OF A 5/8" REBAR.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NE COR. OLD HISTORIC GALATIA CHURCH	320	19.35	63.5
MK # 2	SE COR. OLD HISTORIC GALATIA CHURCH	285	18.59	61.0
MK # 3	CENTERLINE HWY 5	55	10.82	35.5

AZ Mark Station	030018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030019	3/16/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,711.1431	0.0030
Easting (M)	375,985.4537	0.0030
Elevation (M)*	229.030	
Northing (SFT)	678,184.8087	
Easting (SFT)	1,233,545.6093	
Elevation (SFT)*	751.409	

Convergence Angle	0	9	19.3405971
Scale Factor	0.999992879		
Elevation Adjust. Factor	0.9999640590		
Combined Adjust. Factor	0.9999569383		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	11	46.4171784
Longitude	92	16	1.2329184
Ellipsoid Height (M):	200.667		0.0140
Geoid Height (M):	-28.241		

Location Description

FROM THE NORFORK, AR POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST. GO SOUTH ALONG HWY. 5; 2.0 MILES TO THE INTERSECTION OF HWY 5 AND HWY. 177 SOUTH. TURN RIGHT (SOUTHWESTERLY) ON HWY. 177 SOUTH AND GO 0.30 MILES TO THE INTESECTION OF HWY. 177 SOUTH AND SAWMILL LANE. TURN RIGHT (WEST) ON SAWMILL LANE AND GO 100 FEET TO THE STATION MARK ON THE LEFT, BEING 45.3 FEET SOUTH OF THE CENTERLINE OF SAWMILL LANE AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030019" SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL SAWMILL LN.	5	13.81	45.3
MK # 2	WATER VALVE	95	9.23	30.3
MK # 3	POWER POLE	275	6.31	20.7

AZ Mark Station	030019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170007	6/18/1996	AHTD	CRAWFORD	I 540	61,R40116,040485,040373,04

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	130,175.3256	0.0010
Easting (M)	196,496.6439	0.0010
Elevation (M)*	139.741	
Northing (SFT)	427,083.5474	
Easting (SFT)	644,672.7392	
Elevation (SFT)*	458.467	

Convergence Angle	-1	18	18.5318824
Scale Factor			0.999937403
Elevation Adjust. Factor			0.9999780705
Combined Adjust. Factor			0.9999154749

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	29	8.9207304
Longitude	94	14	34.4785776
Ellipsoid Height:			110.305
Grid Northing (Meters)			130,175.3280
Grid Easting (Meters)			196,496.6370

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	29	8.9206584	
Longitude	94	14	34.4783004	
Ellipsoid Height (M):			110.208	0.0020
Geoid Height (M):			-29.524	0.0020

Location Description

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 40 AND HWY-59 ON THE NORTH SIDE OF VAN BUREN, GO EAST ON INTERSTATE 40 FOR 10.70 KM. (6.65 MI.) TO EXIT 12, TAKE EXIT 12 (TO I-540 NORTH) AND GO EAST AND NORTH ON THIS THE WEST-NORTH RAMP (BRIDGE NO. 6213) TO THE NORTH END OF THE RAMP AND THE STATION ON THE LEFT. 7.80 METERS SOUTHWEST OF THE CENTER OF I-540 AND 3.34 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF PARAPET WALL	95	5.47	17.9
MK # 2	NORTH END OF APPROACH GUTTER	21	4.60	15.1
MK # 3				

AZ Mark Station	170017A
Geodetic Azimuth	82 45 33
Grid Azimuth	84 03 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (ARFY, 170011)
Ref Mon # 2	ARHR, (DQUA, 70012)
Ref Mon # 3	OKHV, (SAL1, 170013)

Comments

3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.
**********3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170007A	6/18/1996	AHTD	CRAWFORD	NA	61,R40116,040485,040721,04

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	130,228.3942	0.0010
Easting (M)	197,007.0835	0.0010
Elevation (M)*	141.855	
Northing (SFT)	427,257.6566	
Easting (SFT)	646,347.4064	
Elevation (SFT)*	465.404	

Convergence Angle	-1	18	6.7786326
Scale Factor			0.999937386
Elevation Adjust. Factor			0.9999777387
Combined Adjust. Factor			0.9999151261

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	29	11.0191632
Longitude	94	14	14.2804356
Ellipsoid Height:			112.428
Grid Northing (Meters)			130,228.3981
Grid Easting (Meters)			197,007.0780

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	29	11.0190408	
Longitude	94	14	14.2802124	
Ellipsoid Height (M):			112.332	0.0020
Geoid Height (M):			-29.515	0.0020

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-71B, HWY-64 AND HWY-162 AT ALMA, GO WESTERLY ON HWY-71B & HWY-64 FOR 0.40 KM. (0.25 MI.) TO THE JUNCTION OF "RUDY ROAD", TURN RIGHT AND GO NORTHERLY ON "RUDY ROAD" FOR 0.89 KM. (0.55 MI.) TO THE NORTH END OF A BRIDGE OVER INTERSTATE 40 AND THE STATION ON THE LEFT. 8.0 METERS NORTHWEST OF A FENCE CORNER POST, 6.90 METERS SOUTHWEST OF THE CENTER OF "RUDY ROAD" AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BENCH MARK DISK	116	8.50	27.9
MK # 2	PUNCH MARK IN GUARD RAIL POST	36	1.35	4.4
MK # 3	PUNCH MARK IN GUARD RAIL POST	317	7.76	25.5

AZ Mark Station	170007
Geodetic Azimuth	262 45 45
Grid Azimuth	264 03 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (ARFY, 170011)
Ref Mon # 2	ARHR, (DQUA, 170012)
Ref Mon # 3	OKHV, (SAL1, 170013)

Comments

3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.
**********3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170008	3/24/1998	AHTD	CRAWFORD	N/A	001747

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	116,578.0471	
Easting (M)	192,796.4560	
Elevation (M)*	121.764	
Northing (SFT)	382,473.1429	
Easting (SFT)	632,533.0394	
Elevation (SFT)*	399.487	

Convergence Angle	-1	19	36.6635218
Scale Factor	0.999943382		
Elevation Adjust. Factor	0.9999808916		
Combined Adjust. Factor	0.9999242747		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	21	45.0549288
Longitude	94	16	48.7483752
Ellipsoid Height (M):	91.879		
Geoid Height (M):	-29.932		

Location Description

TO REACH THE STATION FROM THE NORTH END OF THE BRIDGE OVER THE ARKANSAS RIVER ON STATE HIGHWAY 59, LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF BARLING, GO NORTH AND WEST ON STATE HIGHWAY 59 FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF A GRAVEL ROAD (GUN CLUB ROAD) ON THE RIGHT, GO RIGHT EAST ON GUN CLUB ROAD FOR 2.17 KM (1.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.20 METERS SOUTH OF THE CENTER OF GUN CLUB ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as HPT 712 in job 001747

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	170008A
Geodetic Azimuth	273 04 22.82101
Grid Azimuth	274 23 59.50879

Area Reference Monuments (used for Processing)

Ref Mon # 1	FS 2
Ref Mon # 2	Q 299
Ref Mon # 3	GAYLOR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170008A	3/24/1998	AHTD	CRAWFORD	N/A	001747,040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	116,607.9037	0.0010
Easting (M)	192,408.4142	0.0010
Elevation (M)*		

Northing (SFT)	382,571.0974	
Easting (SFT)	631,259.9389	
Elevation (SFT)*		

Convergence Angle	-1	19	45.6218110
Scale Factor	0.999943370		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	21	45.7317180
Longitude	94	17	4.1441712
Ellipsoid Height:	92.370		
Grid Northing (Meters)	116,607.9061		
Grid Easting (Meters)	192,408.3920		

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	35	21	45.7316568
Longitude	94	17	4.1432928
Ellipsoid Height (M):	92.289		0.0020
Geoid Height (M):	-30.039		0.0020

Location Description

TO REACH THE STATION FROM THE NORTH END OF THE BRIDGE OVER THE ARKANSAS RIVER ON STATE HIGHWAY 59, LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF BARLING, GO NORTH AND WEST ON STATE HIGHWAY 59 FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF A GRAVEL ROAD (GUN CLUB ROAD) ON THE RIGHT, GO RIGHT EAST ON GUN CLUB ROAD FOR 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.40 METERS NORTH OF THE CENTER OF GUN CLUB ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as VPT 627 in job 001747

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	170008
Geodetic Azimuth	93 04 13.910704
Grid Azimuth	94 23 59.508792

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (FS 2)
Ref Mon # 2	ARHR, (Q 299)
Ref Mon # 3	OKHV, (GAYLOR)

Comments

THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS -29.938m AND PREVIOUS ELEV. WAS 122.259m
********** 3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170009	10/17/2001	AHTD	CRAWFORD	215	040351

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	134,441.2521
Easting (M)	214,413.3540
Elevation (M)*	
Northing (SFT)	441,079.3413
Easting (SFT)	703,454.4789
Elevation (SFT)*	

Convergence Angle	-1	11	27.0383937
Scale Factor	0.999936419		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	31	39.9759456
Longitude	94	2	47.3222508
Ellipsoid Height (M):	117.738		
Geoid Height (M):	-29.101		

Location Description

THIS STATION IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 215 AND I 40. IT IS IN THE SOUTHWEST QUADRANT, AT THE SOUTHWEST CORNER OF THE OVERPASS. THE STATION IS 7.20 METERS WEST OF THE CENTER OF STATE HIGHWAY 215 AND 2.08 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170009 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 827.718 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER OF OVERPASS	30	3.00	9.8
MK # 2	CENTER OF CONCRETE HEADWALL	156	8.00	26.2
MK # 3				

AZ Mark Station	170009A
Geodetic Azimuth	276 32 42
Grid Azimuth	277 44 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	OZARPORT
Ref Mon # 3	AHTD FS 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170009A	10/17/2001	AHTD	CRAWFORD	N/A	040351

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	134,552.6590
Easting (M)	213,593.2440
Elevation (M)*	
Northing (SFT)	441,444.8487
Easting (SFT)	700,763.8347
Elevation (SFT)*	

Convergence Angle	-1	11	46.0311022
Scale Factor	0.999936404		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	31	43.0359204
Longitude	94	3	19.9614276
Ellipsoid Height (M):	109.375		
Geoid Height (M):	-29.105		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40 LOCATED ABOUT 3.219 KM (2.0 MI) NORTH OF MULBERRY, GO NORTH ON STATE HIGHWAY 215 FOR 0.322 KM (0.2 MI) TO SLATE HILL ROAD (a county road), TURN LEFT, (WEST) ON SLATE HILL ROAD FOR 0.901 KM (0.56 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.55 METERS SOUTH OF THE CENTER OF SLATE HILL ROAD AND 1.22 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170009A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 827.718 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	170009
Geodetic Azimuth	96 32 23
Grid Azimuth	97 44 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	OZARPORT
Ref Mon # 3	AHTD FS 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170010	10/17/2001	AHTD	CRAWFORD	N/A	040351

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	135,361.5820
Easting (M)	217,810.2400
Elevation (M)*	
Northing (SFT)	444,098.7903
Easting (SFT)	714,599.0957
Elevation (SFT)*	
Convergence Angle	-1 10 9.0263108
Scale Factor	0.999936278
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 32 12.1033500
Longitude	94 0 33.2576352
Ellipsoid Height (M):	104.006
Geoid Height (M):	-29.039

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40 LOCATED ABOUT 3.219 KM (2.0 MI) NORTH OF MULBERRY, GO NORTH ON STATE HIGHWAY 215 FOR 0.241 KM (0.15 MI) TO WIRE ROAD ON THE RIGHT. TURN RIGHT (EAST) ON WIRE ROAD AND GO EAST FOR 3.541 KM (2.2 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.30 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 8.00 METERS SOUTH OF THE CENTER OF WIRE ROAD, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "170010 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.744 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	325	17.90	58.7
MK # 2	CORRIGATED METAL PIPE	278	4.50	14.8
MK # 3	TELEPHONE JUNCTION BOX	242	19.85	65.1

AZ Mark Station	170010A
Geodetic Azimuth	67 54 27
Grid Azimuth	69 04 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	OZARPORT
Ref Mon # 3	AHTD FS 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170010A	10/17/2001	AHTD	CRAWFORD	N/A	040351

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	135,522.8951
Easting (M)	218,232.1610
Elevation (M)*	
Northing (SFT)	444,628.0317
Easting (SFT)	715,983.3482
Elevation (SFT)*	

Convergence Angle	-1	9	59.3574677
Scale Factor	0.999936256		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	32	17.6157420
Longitude	94	0	16.6416228
Ellipsoid Height (M):	109.106		
Geoid Height (M):	-29.030		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40 LOCATED ABOUT 3.219 KM (2.0 MI) NORTH OF MULBERRY, GO NORTH ON STATE HIGHWAY 215 FOR 0.241 KM (0.15 MI), TO WIRE ROAD ON THE RIGHT. TURN RIGHT (EAST) ON WIRE ROAD FOR 4.023 KM (2.5 MI) TO THE STATION ON THE LEFT. THE STATION IS 24.00 METERS EAST OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 8.90 METERS NORTH OF THE CENTER OF WIRE ROAD, AND 1.10 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "170010A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.744 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	253	30.25	99.2
MK # 2				
MK # 3				

AZ Mark Station	170010
Geodetic Azimuth	247 54 36
Grid Azimuth	249 04 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	OZARPORT
Ref Mon # 3	AHTD FS 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170011	9/24/2002	AHTD	CRAWFORD	540	040130,40456,BB0407

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	125,371.3711	
Easting (M)	189,411.4830	
Elevation (M)*		
Northing (SFT)	411,322.5734	
Easting (SFT)	621,427.5071	
Elevation (SFT)*		

Convergence Angle	-1	20	59.4435687
Scale Factor	0.999939042		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	26	27.7510956
Longitude	94	19	11.0067888
Ellipsoid Height (M):	106.959		
Geoid Height (M):	-29.703		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND I 540 IN VAN BUREN, GO SOUTHEAST ON I 540 FOR 0.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.00 METERS EAST OF THE EAST EDGE OF SOUTHEAST BOUND LANE OF 540 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "170011 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER RAILROAD OVERPASS	200	3.50	11.5
MK # 2	PUNCH MARK IN METAL GUARD RAIL POST	329	5.35	17.6
MK # 3	PUNCH MARK IN METAL GUARD RAIL POST	337	7.95	26.1

AZ Mark Station	170011A
Geodetic Azimuth	352 51 10
Grid Azimuth	354 12 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS 2
Ref Mon # 2	GAYLOR
Ref Mon # 3	SALISAW 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170012	12/1/2004	AHTD	CRAWFORD	64	040431,040456

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	130,021.1121	
Easting (M)	198,370.1220	
Elevation (M)*	129.759	
Northing (SFT)	426,577.5986	
Easting (SFT)	650,819.3086	
Elevation (SFT)*	425.717	

Convergence Angle	-1	17	35.2110038
Scale Factor	0.999937434		
Elevation Adjust. Factor	0.9999796370		
Combined Adjust. Factor	0.9999170723		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	29	5.2961424
Longitude	94	13	20.0308980
Ellipsoid Height (M):	100.286		
Geoid Height (M):	-29.433		

Location Description

To reach the station from the junction of Hwy-64 and 71B in Alma go east on hwy-64 for 0.20 miles to the station on the right. 16.10 meters Southeast of the center of the highway and 0.50 meters Northwest of a witness post. The station mark is a standard 64mm cap stamped "170012 2004" set on top of an iron rod 1.22 meters long and is 0.20 mm below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	W edge of paved drive	60	29.30	96.1
MK # 2	SW corner of concrete drive	82	23.15	76.0
MK # 3				

AZ Mark Station	170012A
Geodetic Azimuth	63 08 05
Grid Azimuth	64 25 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS 2
Ref Mon # 2	Gaylor
Ref Mon # 3	Ozarport, 170011

Comments

3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290010	4/26/2001	AHTD	HEMPSTEAD	29	030238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	519,612.5200	
Easting (M)	253,579.5921	
Elevation (M)*	105.662	
Northing (SFT)	1,704,762.0760	
Easting (SFT)	831,952.3784	
Elevation (SFT)*	346.660	

Convergence Angle	0	53	3.8764839
Scale Factor	0.999932052		
Elevation Adjust. Factor	0.9999834184		
Combined Adjust. Factor	0.9999154716		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	44	5.7142392
Longitude	93	34	48.6358104
Ellipsoid Height (M):	78.755		
Geoid Height (M):	-26.878		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 4.30 KM (2.67 MI) TO THE STATION ON THE RIGHT. THE STATION IS 21.00 METERS SOUTH OF THE CENTER OF A PASTURE ENTRANCE, 12.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 29 AND 0.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290010 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 501.329 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	356	18.55	60.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	290010A
Geodetic Azimuth	184 14 09.58927
Grid Azimuth	185 07 13.46889

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	HOPE 2
Ref Mon # 3	HOPEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290010A	4/26/2001	AHTD	HEMPSTEAD	29	030238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	519,113.2300
Easting (M)	253,534.8524
Elevation (M)*	107.644
Northing (SFT)	1,703,123.9888
Easting (SFT)	831,805.5949
Elevation (SFT)*	353.162

Convergence Angle	0	53	4.6815680
Scale Factor			0.999932463
Elevation Adjust. Factor			0.9999831074
Combined Adjust. Factor			0.9999155716

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	43	49.4874300
Longitude	93	34	50.0742552
Ellipsoid Height (M):	80.745		
Geoid Height (M):	-26.877		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 3.80 KM (2.36 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 29 AND 0.50 EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290010A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 501.329 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	338	18.72	61.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	390010
Geodetic Azimuth	4 14 08.790478
Grid Azimuth	5 07 13.468894

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	HOPE 2
Ref Mon # 3	HOPEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290011	4/26/2001	AHTD	HEMPSTEAD	29	030238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	524,024.9365	
Easting (M)	253,803.3656	
Elevation (M)*	115.478	
Northing (SFT)	1,719,238.4792	
Easting (SFT)	832,686.5420	
Elevation (SFT)*	378.864	

Convergence Angle	0	53	0.4906868	
Scale Factor			0.999928682	
Elevation Adjust. Factor			0.9999818781	
Combined Adjust. Factor			0.9999105614	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	46	29.0304660	
Longitude	93	34	42.5864028	
Ellipsoid Height (M):	88.598			
Geoid Height (M):	-26.892			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 8.61 KM (5.35 MI) TO THE JUNCTION OF STATE HIGHWAY 332 EAST AND THE STATION ON THE RIGHT. THE STATION IS 58.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 332, 15.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 29, 4.75 METERS NORTH OF THE CENTER OF A PASTURE ENTRANCE AND 1.08 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290011 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 922.120 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN GATE POST	127	7.30	24.0
MK # 2	WOODEN BRACE POST	71	1.40	4.6
MK # 3	NONE			

AZ Mark Station	290011A
Geodetic Azimuth	183 22 42.32905
Grid Azimuth	184 15 42.82375

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	HOPE 2
Ref Mon # 3	HOPEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290011A	4/26/2001	AHTD	HEMPSTEAD	29	030238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	523,105.4370	
Easting (M)	253,734.8431	
Elevation (M)*	111.266	
Northing (SFT)	1,716,221.7546	
Easting (SFT)	832,461.7311	
Elevation (SFT)*	365.045	

Convergence Angle	0	53	1.6726151
Scale Factor			0.999929345
Elevation Adjust. Factor			0.9999825391
Combined Adjust. Factor			0.9999118853

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	45	59.1540120	
Longitude	93	34	44.6981556	
Ellipsoid Height (M):	84.380			
Geoid Height (M):	-26.890			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 32, LOCATED ABOUT 1.61 KM (1.00 MI) NORTH OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 7.72 KM (4.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 31.00 METERS SOUTH OF THE CENTER OF COUNTY ROAD 251, 10.75 METERS WEST OF THE CENTER OF STATE HIGHWAY 29 ANS 1.88 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290011A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 922.120 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	352	26.25	86.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	290011
Geodetic Azimuth	3 22 41.155188
Grid Azimuth	4 15 42.823746

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	HOPE 2
Ref Mon # 3	HOPEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290012	2/12/2003	AHTD	HEMPSTEAD	67	030152

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	516,392.8491
Easting (M)	259,485.2540
Elevation (M)*	
Northing (SFT)	1,694,198.8724
Easting (SFT)	851,327.8708
Elevation (SFT)*	
Convergence Angle	0 50 54.4417908
Scale Factor	0.999934730
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	42	24.1183080
Longitude	93	30	57.3746940
Ellipsoid Height (M):	61.746		
Geoid Height (M):	-26.819		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 174 AND HIGHWAY 67, EAST OF HOPE, GO NORTH ON HIGHWAY 67 2.4 MILES TO THE STATION ON THE LEFT. 13.80 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY AND 1.60 METERS SOUTH EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290012 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONC RIGHT OF WAY MKR	55	21.50	70.5
MK # 2				
MK # 3				

AZ Mark Station	290012A
Geodetic Azimuth	65 44 42
Grid Azimuth	66 35 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARTX
Ref Mon # 2	HOPE
Ref Mon # 3	CSAL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290012A	2/12/2003	AHTD	HEMPSTEAD	67	030152

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	516,571.8451
Easting (M)	259,898.7580
Elevation (M)*	
Northing (SFT)	1,694,786.1285
Easting (SFT)	852,684.5085
Elevation (SFT)*	
Convergence Angle	0 50 45.5119953
Scale Factor	0.999934565
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	42	30.1261248
Longitude	93	30	41.4198180
Ellipsoid Height (M):	53.295		
Geoid Height (M):	-26.816		

Location Description

TO REACH THE STATION FORM THE JUNCTION OF STATE HIGHWAY 174 AND HIGHWAY 67, EAST OF HOPE, GO NORTH ON HIGHWAY 67 2.7 MILES TO THE STATION ON THE RIGHT. 33.70 METERS SOUTH EAST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290012A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOOD BRACE POST	58	13.60	44.6
MK # 2				
MK # 3				

AZ Mark Station	290012
Geodetic Azimuth	245 44 50
Grid Azimuth	246 35 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARTX
Ref Mon # 2	HOPE
Ref Mon # 3	CSAL

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290013	7/30/2003	AHTD	HEMPSTEAD	195	R30076

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	541,961.2501	
Easting (M)	256,636.2440	
Elevation (M)*		
Northing (SFT)	1,778,084.5347	
Easting (SFT)	841,980.7439	
Elevation (SFT)*		

Convergence Angle	0	52	4.7821223	
Scale Factor	0.999919913			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	56	12.5512584	
Longitude	93	33	3.0518460	
Ellipsoid Height (M):	55.757			
Geoid Height (M):	-26.955			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 3.75 MILES TO THE STATION ON THE LEFT, NORTH 6.60 METERS OF THE CENTERLINE AND SOUTH 6.5 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290013 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	1st POWER POLE WEST OF BRIDGE	74	25.60	84.0
MK # 2				
MK # 3				

AZ Mark Station	290013A
Geodetic Azimuth	271 25 54
Grid Azimuth	272 17 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	DQUA C.O.R.S.

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290013A	7/30/2003	AHTD	HEMPSTEAD	195	R30076

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	541,987.0951
Easting (M)	255,992.6910
Elevation (M)*	
Northing (SFT)	1,778,169.3278
Easting (SFT)	839,869.3537
Elevation (SFT)*	
Convergence Angle	0 52 18.8155305
Scale Factor	0.999919909
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	56	13.0728948
Longitude	93	33	28.1253528
Ellipsoid Height (M):	55.945		
Geoid Height (M):	-26.960		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 3.35 MILES TO THE STATION ON THE LEFT, NORTH 7.95 METERS OF THE CENTERLINE AND SOUTH 4.25 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290013A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	1st POWER POLE EAST OF MAILBOX 3408	77	30.40	99.7
MK # 2	MAILBOX 3408	262	36.40	119.4
MK # 3				

AZ Mark Station	290013
Geodetic Azimuth	91 25 40
Grid Azimuth	92 17 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	DQUA C.O.R.S.

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290014	8/4/2003	AHTD	HEMPSTEAD	195	R30076

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	541,031.4191
Easting (M)	253,783.9260
Elevation (M)*	
Northing (SFT)	1,775,033.9142
Easting (SFT)	832,622.7639
Elevation (SFT)*	
Convergence Angle	0 53 6.6288792
Scale Factor	0.999920184
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 55 40.9578996
Longitude	93 34 53.5535184
Ellipsoid Height (M):	89.705
Geoid Height (M):	-26.966

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 1.55 MILES TO A GRAVEL COUNTY ROAD NUMBER 282, TURN LEFT ON COUNTY ROAD 282 (NORTH) AND GO 0.30 MILES TO A GRAVEL PRIVATE DRIVE NUMBER 162, TURN LEFT (WEST) AND GO 0.07 MILES TO THE STATION ON THE LEFT, SOUTH 9.80 METERS OF THE CENTERLINE AND NORTH 0.35 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290014 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	41	5.40	17.7
MK # 2	FENCE CORNER	117	2.10	6.9
MK # 3				

AZ Mark Station	290014
Geodetic Azimuth	203 29 54
Grid Azimuth	204 23 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	DQUA C.O.R.S.

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290014A	8/4/2003	AHTD	HEMPSTEAD	195	R30076

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	540,481.3950	
Easting (M)	253,534.6160	
Elevation (M)*		
Northing (SFT)	1,773,229.3768	
Easting (SFT)	831,804.8193	
Elevation (SFT)*		

Convergence Angle	0	53	11.8759841	
Scale Factor	0.999920349			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	55	22.9821780	
Longitude	93	35	2.9285268	
Ellipsoid Height (M):	88.838			
Geoid Height (M):	-26.963			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 371 AND HIGHWAY 195, NORTHWEST OF PRESCOTT, GO NORTH ON HIGHWAY 195 1.35 MILES TO THE STATION ON THE LEFT, NORTH 8.35 METERS OF THE CENTERLINE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290014A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BIRD HOUSE POST	202	20.70	67.9
MK # 2				
MK # 3				

AZ Mark Station	290014
Geodetic Azimuth	23 29 49
Grid Azimuth	24 23 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	DQUA C.O.R.S.

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290015	10/13/2003	AHTD	HEMPSTEAD	67	030152, 030078

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	512,180.4272	
Easting (M)	254,349.1060	
Elevation (M)*	103.189	
Northing (SFT)	1,680,378.6182	
Easting (SFT)	834,477.0253	
Elevation (SFT)*	338.546	

Convergence Angle	0	52	44.6668927
Scale Factor	0.999938792		
Elevation Adjust. Factor	0.9999838065		
Combined Adjust. Factor	0.9999225995		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	4.8903600
Longitude	93	34	14.3140116
Ellipsoid Height (M):	76.232		
Geoid Height (M):	-26.840		

Location Description

THE STATION MARK IS LOCATED IN THE SOUTH EAST CORNER OF THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 73, EAST OF HOPE, 22.25 METERS WEST OF THE CENTERLINE OF HIGHWAY 73, 24.0 METERS SOUTH OF CENTERLINE HIGHWAY 67 AND 5.18 METERS NORTH OF OLD PAVED ROAD. NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290015 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	30" CMP	286	11.58	38.0
MK # 2	MAN HOLE	52	15.85	52.0
MK # 3	FIRE HYDRANDT	118	23.77	78.0

AZ Mark Station	290015A
Geodetic Azimuth	50 03 15
Grid Azimuth	50 55 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARTX
Ref Mon # 2	HOPE
Ref Mon # 3	CSAL

Comments

3-Wire level Elevation ran by S5111 in July 06 in Job 030290/030330 from NGS U62/V62/W62/E64.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290015A	10/13/2003	AHTD	HEMPSTEAD	67	030152

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	512,693.9902	
Easting (M)	254,981.7920	
Elevation (M)*	99.887	
Northing (SFT)	1,682,063.5328	
Easting (SFT)	836,552.7626	
Elevation (SFT)*	327.712	

Convergence Angle	0	52	31.0926469
Scale Factor	0.999938272		
Elevation Adjust. Factor	0.9999843248		
Combined Adjust. Factor	0.9999225977		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	21.8724708
Longitude	93	33	50.0608908
Ellipsoid Height (M):	72.940		
Geoid Height (M):	-26.837		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND HIGHWAY 73, EAST OF HOPE, GO NORTH ON HIGHWAY 67 0.50 MILES TO THE STATION ON THE LEFT, 13.4 METERS SOUTH WEST OF A DRIVE WAY AND 15.24 METERS NORTH WEST OF HIGHWAY 67. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 290015A 2003" ON TOP OF A 1.22 METER IRO ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RIGHT OF WAY MARKER	21	67.00	219.8
MK # 2	MAN HOLE	23	19.81	65.0
MK # 3				

AZ Mark Station	290015
Geodetic Azimuth	230 03 28
Grid Azimuth	230 55 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARTX
Ref Mon # 2	HOPE
Ref Mon # 3	CSAL

Comments

3-Wire level Elevation ran by S5111 in July 06 in Job 030290/030330 from NGS U62/V62/W62/E64.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320010A	6/11/1997	AHTD	NDEPENDENCI	106	R50090

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	159,948.6659	
Easting (M)	427,304.3590	
Elevation (M)*	100.791	
Northing (SFT)	524,764.9147	
Easting (SFT)	1,401,914.3845	
Elevation (SFT)*	330.678	

Convergence Angle	0	10	32.6250480
Scale Factor			0.999941440
Elevation Adjust. Factor			0.9999841829
Combined Adjust. Factor			0.9999256238

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	46	28.8734592	
Longitude	91	41	52.8269532	
Ellipsoid Height (M):	72.431			
Geoid Height (M):	-28.360			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVIILLE, GO WESTERLY ON STATE HIGHWAY 106 FOR 3.70 KM (2.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.30 METERS NORTHWEST OF THE CENTER OF MILL DAM ROAD, 9.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 106 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320010A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AHTD BENCH MARK	85	11.53	37.8
MK # 2	PUNCH IN TOP OF A GUARD RAIL	65	2.05	6.7
MK # 3	PUNCH IN TOP OF A GUARD RAIL	280	3.95	13.0

AZ Mark Station	320010
Geodetic Azimuth	271 37 57.11163
Grid Azimuth	271 27 24.46652

Area Reference Monuments (used for Processing)

Ref Mon # 1	BATEPORT
Ref Mon # 2	J 165
Ref Mon # 3	ALMOND

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320011	7/7/1997	AHTD	NDEPENDENCI	167	5962

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	142,092.9961	
Easting (M)	435,667.6260	
Elevation (M)*	90.851	
Northing (SFT)	466,183.4380	
Easting (SFT)	1,429,352.8696	
Elevation (SFT)*	298.067	

Convergence Angle	0	13	44.7407538
Scale Factor	0.999936065		
Elevation Adjust. Factor	0.9999857427		
Combined Adjust. Factor	0.9999218086		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	36	48.5361144
Longitude	91	36	22.6740168
Ellipsoid Height (M):	62.483		
Geoid Height (M):	-28.291		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 15.05 KM. (9.35 MI.) TO THE STATION ON THE LEFT ACROSS THE HIGHWAY FROM A ROADSIDE PARK AND REST AREA. 27.40 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 17.95 METERS EAST OF THE CENTER OF HWY-167 AND 1.00 METERS WEST OF A WITNESS POST SET NEAR A FIRE HYDRANT. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320011 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	151	1.38	4.5
MK # 2	WATER VALVE	209	2.25	7.4
MK # 3	NORTH GATE POST	97	28.20	92.5

AZ Mark Station	320011A
Geodetic Azimuth	8 39 19.04671
Grid Azimuth	8 25 34.30637

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY 3-WIRE LEVELING USING TBM-19 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320011A	7/7/1997	AHTD	NDEPENDENCI	167	5962

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	142,422.8220	
Easting (M)	435,716.4850	
Elevation (M)*	93.584	
Northing (SFT)	467,265.5418	
Easting (SFT)	1,429,513.1679	
Elevation (SFT)*	307.034	

Convergence Angle	0	13	45.9010420
Scale Factor	0.999936093		
Elevation Adjust. Factor	0.9999853138		
Combined Adjust. Factor	0.9999214078		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	36	59.2320672
Longitude	91	36	20.6800488
Ellipsoid Height (M):	65.216		
Geoid Height (M):	-28.292		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 14.73 KM. (9.15 MI.) TO THE STATION ON THE RIGHT. 16.25 METERS WEST OF THE CENTER OF HWY-167, 10.40 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE AND 4.00 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320011A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TBM-20	282	4.15	13.6
MK # 2	WATER METER	342	6.70	22.0
MK # 3	SOUTH END OF CMP 0.40 METERS IN DIAM ETER	50	9.70	31.8

AZ Mark Station	320011
Geodetic Azimuth	188 39 20.20786
Grid Azimuth	188 25 34.30637

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY 3-WIRE LEVELING USING TBM-20 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320012	7/7/1997	AHTD	NDEPENDENCI	167	5962

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	147,079.8389	
Easting (M)	435,737.7610	
Elevation (M)*	84.104	
Northing (SFT)	482,544.4381	
Easting (SFT)	1,429,582.9709	
Elevation (SFT)*	275.931	

Convergence Angle	0	13	46.8246912
Scale Factor	0.999936770		
Elevation Adjust. Factor	0.9999868015		
Combined Adjust. Factor	0.9999235723		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	39	30.3410304
Longitude	91	36	19.0927476
Ellipsoid Height (M):	55.726		
Geoid Height (M):	-28.310		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 9.82 KM (6.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.75 METERS NORTHWEST OF THE NORTHWEST END OF A BRIDGE, 7.00 METERS WEST OF THE CENTER OF U.S. HWY 167 AND 0.58 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320012 1997" SET ON TOP OF AN IRON ROD 0.73 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF GUARD RAIL POST	12	4.00	13.1
MK # 2	PUNCH IN TOP OF GUARD RAIL POST	22	2.15	7.1
MK # 3	PUNCH IN TOP OF GUARD RAIL POST	170	3.90	12.8

AZ Mark Station	320012A
Geodetic Azimuth	13 54 31.01694
Grid Azimuth	13 40 44.19460

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY 3-WIRE LEVELING USING TBM-32 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320012A	7/7/1997	AHTD	NDEPENDENCI	167	5962, 005963

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	147,526.8120	
Easting (M)	435,846.5470	
Elevation (M)*	88.025	
Northing (SFT)	484,010.8824	
Easting (SFT)	1,429,939.8796	
Elevation (SFT)*	288.795	

Convergence Angle	0	13	49.3831050
Scale Factor	0.999936864		
Elevation Adjust. Factor	0.9999861862		
Combined Adjust. Factor	0.9999230511		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	39	44.8302600
Longitude	91	36	14.6960856
Ellipsoid Height (M):	59.646		
Geoid Height (M):	-28.311		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 9.38 K (5.83 MI) TO THE STATION ON THE LEFT. THE STATION IS 34.455 METERS EAST OF THE CENTER OF U.S. HWY 167, 3.88 METERS NORTH OF THE CENTER OF A PASTURE ENTRANCE AND 1.75 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320012A 1997" SET ON TOP OF AN IRON ROD 0.49 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	162	11.61	38.1
MK # 2	NORTH GATE POST	118	2.08	6.8
MK # 3	WATER VALVE	285	14.32	47.0

AZ Mark Station	320012
Geodetic Azimuth	193 54 33.58011
Grid Azimuth	193 40 44.19460

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY 3-WIRE LEVELING USING HPT-61 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320013	7/7/1997	AHTD	NDEPENDENCI	167	5962

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,686.7419	
Easting (M)	434,742.6870	
Elevation (M)*	89.681	
Northing (SFT)	491,097.2524	
Easting (SFT)	1,426,318.2989	
Elevation (SFT)*	294.228	

Convergence Angle	0	13	24.0381158
Scale Factor	0.999937384		
Elevation Adjust. Factor	0.9999859263		
Combined Adjust. Factor	0.9999233112		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	40	55.0574364
Longitude	91	36	58.2517260
Ellipsoid Height (M):	61.291		
Geoid Height (M):	-28.320		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 6.76 KM (4.20 MI) TO THE CALVARY PENECOSTAL CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 11.364 METERS WEST OF THE CENTER OF U.S. HWY 167, 7.508 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE TO THE CHURCH AND 3.02 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 320013 1997" SET ON TOP OF AN IRON ROD 0.77 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	266	3.20	10.5
MK # 2	FIRE HYDRANT	83	26.56	87.1
MK # 3	NORTH END OF A CMP 0.60 METERS IN DIA METER	170	39.35	129.1

AZ Mark Station	320013A
Geodetic Azimuth	173 08 37.28956
Grid Azimuth	172 55 13.25351

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY 3-WIRE LEVELING USING TBM-40 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320013A	7/7/1997	AHTD	NDEPENDENCI	167	5962

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,054.9740	
Easting (M)	434,821.1500	
Elevation (M)*	88.219	
Northing (SFT)	489,024.5272	
Easting (SFT)	1,426,575.7230	
Elevation (SFT)*	289.432	

Convergence Angle	0	13	25.7968214
Scale Factor	0.999937220		
Elevation Adjust. Factor	0.9999861558		
Combined Adjust. Factor	0.9999233766		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	40	34.5479340
Longitude	91	36	55.2293712
Ellipsoid Height (M):	59.832		
Geoid Height (M):	-28.317		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 7.40 KM (4.60 MI) TO ODUS PACK BUILDING MATERIALS AND THE STATION ON THE RIGHT. THE STATION IS 29.10 METERS SOUTH OF THE CENTER OF KYLER ROAD, 16.67 METERS WEST OF THE CENTER OF U.S. HWY 167 AND 3.40 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320013A 1997" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE=TBM 38	326	19.14	62.8
MK # 2	SOUTH END OF A CMP 0.457 METERS IN DI AMETER	350	22.21	72.9
MK # 3	FIRE HYDRANT	93	40.11	131.6

AZ Mark Station	320013
Geodetic Azimuth	353 08 39.05234
Grid Azimuth	352 55 13.25351

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY 3-WIRE LEVELING USING TBM-38 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320014	7/7/1997	AHTD	NDEPENDENCI	167	5962, 050115

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	152,934.3699	
Easting (M)	433,358.4990	
Elevation (M)*	112.618	
Northing (SFT)	501,752.1786	
Easting (SFT)	1,421,777.0088	
Elevation (SFT)*	369.480	

Convergence Angle	0	12	52.2860346
Scale Factor	0.999938384		
Elevation Adjust. Factor	0.9999823269		
Combined Adjust. Factor	0.9999207120		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	42	40.6075644
Longitude	91	37	52.8180240
Ellipsoid Height (M):	84.343		
Geoid Height (M):	-28.333		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 3.14 KM. (1.95 MI.) TO THE DISTRICT FIVE HEADQUARTERS OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT AND THE STATION ON THE LEFT. 23.149 METERS EAST OF THE CENTER OF HWY-167, 9.128 METERS NORTH OF THE ENTRANCE TO THE DISTRICT FIVE HEADQUARTERS AND 8.524 METERS WEST OF A PAVED STREET. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320014 1997" SET ON TOP OF AN IRON ROD ENCASED IN A 30cm CONCRETE POST AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	305	15.59	51.2
MK # 2	GUY POLE W/TBM-49	325	50.41	165.4
MK # 3	NORTHWEST CORNER OF BRICK BUILDING	132	58.16	190.8

AZ Mark Station	320014A
Geodetic Azimuth	82 29 16.79466
Grid Azimuth	82 16 24.52194

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY 3-WIRE LEVELING USING TBM-49 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON. ELEV. UPDATED BY CREW S5102 DURING JOB 050302 IN SEPT. 2013 FROM FIRST ORDER BM ARBT1

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320014A	7/7/1997	AHTD	NDEPENDENCI	N/A	5962, 050115

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	152,984.6770	
Easting (M)	433,729.2830	
Elevation (M)*	120.753	
Northing (SFT)	501,917.2278	
Easting (SFT)	1,422,993.4893	
Elevation (SFT)*	396.170	

Convergence Angle	0	13	0.8744216
Scale Factor			0.999938401
Elevation Adjust. Factor			0.9999810503
Combined Adjust. Factor			0.9999194524

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	42	42.1946172	
Longitude	91	37	38.0587872	
Ellipsoid Height (M):	92.350			
Geoid Height (M):	-28.333			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAYS 25 AND 14 LOCATED SOUTH OF BATESVILLE AT THE TOP OF RAMSEY MT., GO SOUTH ON HWY-167 FOR 3.14 KM. (1.95 MI.) TO THE DISTRICT FIVE HEADQUARTERS OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT ON THE LEFT. TURN LEFT ONTO THE NORTHERN MOST DRIVEWAY AND GO EASTERLY PASSING THROUGH A GATE FOR 0.34 KM. (0.18 MI.) TO THE STATION ON THE LEFT NEAR THE NORTHEASTERN CORNER OF DISTRICT FIVE HEADQUARTERS. THE STATION IS 4.352 METERS NORTH OF THE PAVED ROAD AND 9.23 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAINLINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320014A 1997" SET ON TOP OF AN IRON ROD ENCASED IN A 30cm CONCRETE POST AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE TANK SUPPORT	175	56.03	183.8
MK # 2	FENCE CORNER POST	79	46.35	152.1
MK # 3				

AZ Mark Station	320014
Geodetic Azimuth	262 29 25.40970
Grid Azimuth	262 16 24.52194

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY 3-WIRE LEVELING USING TBM-49 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGINAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATA FORM IS NAVD88 AND WAS ARRIVED AT USING VERTCON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720010	6/28/1994	AHTD	WASHINGTON	62	040397, 040411, R40081

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	183,013.3979	
Easting (M)	187,458.6700	
Elevation (M)*	371.036	
Northing (SFT)	600,436.4563	
Easting (SFT)	615,020.6532	
Elevation (SFT)*	1,217.307	

Convergence Angle	-1	22	16.3150904
Scale Factor	0.999957384		
Elevation Adjust. Factor	0.9999417758		
Combined Adjust. Factor	0.9998991623		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	57	36.0842472
Longitude	94	21	23.1113376
Ellipsoid Height (M):	342.900		
Geoid Height (M):	-28.118		

Location Description

FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 6.759 KM (4.20 MILES) TO THE STATION ON THE LEFT ACROSS THE HIGHWAY FROM A BAR CALLED "THE CORRAL". THE STATION IS 12.80 METERS NORTH OF THE CENTERLINE OF HWY. 62, 1.25 METERS SOUTH OF A BARBED WIRE FENCE AND 1.20 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720010" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	280	4.80	15.7
MK # 2	GAS METER	85	16.20	53.1
MK # 3				

AZ Mark Station	720010A
Geodetic Azimuth	270 48 48
Grid Azimuth	272 11 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

Comments

3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720010A	6/28/1994	AHTD	WASHINGTON	62	040397, 040411, R40081

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	183,039.5419
Easting (M)	186,773.3170
Elevation (M)*	363.614
Northing (SFT)	600,522.2304
Easting (SFT)	612,772.1242
Elevation (SFT)*	1,192.956

Convergence Angle	-1	22	32.2410206
Scale Factor			0.999957394
Elevation Adjust. Factor			0.9999429404
Combined Adjust. Factor			0.9999003368

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	57	36.3992904
Longitude	94	21	50.4802224
Ellipsoid Height (M):	335.462		
Geoid Height (M):	-28.125		

Location Description

FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 6.115 KM (3.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 14.60 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 23.50 METERS EAST OF A DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720010A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	77	10.85	35.6
MK # 2	WOODEN FENCE POST	268	26.60	87.3
MK # 3				

AZ Mark Station	720010
Geodetic Azimuth	90 48 32
Grid Azimuth	92 11 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

Comments

3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720011	11/9/1994	AHTD	WASHINGTON	412	40151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	206,955.3909	
Easting (M)	221,492.7460	
Elevation (M)*	411.495	
Northing (SFT)	678,986.1450	
Easting (SFT)	726,680.7842	
Elevation (SFT)*	1,350.047	

Convergence Angle	-1	9	17.3065861
Scale Factor			0.999990351
Elevation Adjust. Factor			0.9999354272
Combined Adjust. Factor			0.9999257788

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	10	57.0322128	
Longitude	93	59	4.3767240	
Ellipsoid Height (M):	382.969			
Geoid Height (M):	-28.558			

Location Description

FROM THE JCT. OF HWY. 412 AND COUNTY ROAD NO. 95 AT A "Y" INTERSECTION IN THE TOWN OF NOB HILL SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.174 KM (0.73 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.07 METERS SOUTH OF THE CENTERLINE OF HWY. 412 AND 0.65 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720011" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	10" CORNER POST	350	24.10	79.1
MK # 2	10" CORNER POST	5	23.90	78.4
MK # 3	NONE			

AZ Mark Station	720011A
Geodetic Azimuth	97 19 30.2595
Grid Azimuth	98 28 47.6551

Area Reference Monuments (used for Processing)

Ref Mon # 1	HINDSVILLE NO. 2
Ref Mon # 2	440001
Ref Mon # 3	PRICE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720011A	11/9/1994	AHTD	WASHINGTON	412	40151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	206,877.1790	
Easting (M)	222,017.3320	
Elevation (M)*	406.942	
Northing (SFT)	678,729.5448	
Easting (SFT)	728,401.8634	
Elevation (SFT)*	1,335.109	

Convergence Angle	-1	9	5.0560472
Scale Factor			0.999990241
Elevation Adjust. Factor			0.9999361416
Combined Adjust. Factor			0.9999263832

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	10	54.8377428
Longitude	93	58	43.3240392
Ellipsoid Height (M):	378.384		
Geoid Height (M):	-28.558		

Location Description

FROM THE JCT. OF HWY. 412 AND COUNTY ROAD NO. 95 AT A "Y" INTERSECTION IN THE TOWN OF NOB HILL SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.705 KM (1.06 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.42 METERS SOUTH OF THE CENTERLINE OF HWY. 412 AND 0.75 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720011A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	1	23.58	77.4
MK # 2	FENCE BRACE POST	283	25.67	84.2
MK # 3	NONE			

AZ Mark Station	720011
Geodetic Azimuth	277 19 42.68805
Grid Azimuth	278 28 47.65511

Area Reference Monuments (used for Processing)

Ref Mon # 1	PRICE
Ref Mon # 2	HINDSVILLE NO. 2
Ref Mon # 3	440001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720012	11/9/1994	AHTD	WASHINGTON	412	040151, 012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,232.5173	0.0010
Easting (M)	226,634.9254	0.0010
Elevation (M)*		
Northing (SFT)	676,614.5172	
Easting (SFT)	743,551.4177	
Elevation (SFT)*		

Convergence Angle	-1	7	17.2504612
Scale Factor	0.999989338		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	GEOID 18	
Latitude	36 10	36.8978484
Longitude	93 55	38.0589636
Ellipsoid Height (M):	393.112	0.0050
Geoid Height (M):	-28.024	0.0050

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 303 IN THE TOWN OF SPRING VALLEY SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 0.77 KM (0.48 MILES) TO THE STATION ON THE LEFT NEAR A GRAVELED PULL-OFF AREA. THE STATION IS 15.18 METERS NORTH OF THE CENTERLINE OF HWY. 412, 20.55 METERS EAST OF A PRIVATE DRIVEWAY AND 0.74 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	10	36.8979960
Longitude	93	55	38.0591832
Ellipsoid Height:	393.048		
Grid Northing (Meters)	206,232.5220		
Grid Easting (Meters)	226,634.9200		

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER POST	270	16.61	54.5
MK # 2	COMBINATION POLE	175	27.00	88.6
MK # 3	NONE			

AZ Mark Station	720012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (PRICE)
Ref Mon # 2	ARHR (HINDSVILLE NO. 2)
Ref Mon # 3	ARRV (440001)

Comments

ORIG. STATIC ELEV. 1381.1685 US FT W/ORIG ELLIPSOID HT. 393.048m AND ORIG GEOID HT. -27.933m
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720012A	11/9/1994	AHTD	WASHINGTON	412	040151, 012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,200.4724	0.0020
Easting (M)	227,128.7167	0.0020
Elevation (M)*		
Northing (SFT)	676,509.3832	
Easting (SFT)	745,171.4647	
Elevation (SFT)*		

Convergence Angle	-1	7	5.7396259
Scale Factor	0.999989301		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	36	10	36.1714908
Longitude	93	55	18.2774676
Ellipsoid Height (M):	385.305	0.0050	
Geoid Height (M):	-28.023	0.0050	

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 303 SOUTH OF THE TOWN OF SPRING VALLEY SOUTHEAST OF SPRINGDALE, GO EAST ON HWY. 412 FOR 1.255 KM (0.78 MILES) TO THE STATION ON THE LEFT ON AN ELEVATED BANK ABOUT 1.50 METERS HIGHER THAN THE ROAD SURFACE. THE STATION IS 14.66 METERS NORTH OF THE CENTERLINE OF HWY. 412 AND 0.87 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720012A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	289	33.60	110.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	720012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (PRICE)
Ref Mon # 2	ARHR (HINDSVILLE NO. 2)
Ref Mon # 3	ARRV (440001)

Comments

ORIG. STATIC ELEV. 1355.5747 US FT W/ORIG ELLIPSOID HT. 385.249m AND ORIG GEOID HT. -27.931m
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720013	6/13/1995	AHTD	WASHINGTON	16	4999

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	192,878.6839	
Easting (M)	208,299.9820	
Elevation (M)*	367.702	
Northing (SFT)	632,802.8154	
Easting (SFT)	683,397.5243	
Elevation (SFT)*	1,206.369	

Convergence Angle	-1	14	17.3807046
Scale Factor	0.999969351		
Elevation Adjust. Factor	0.9999422989		
Combined Adjust. Factor	0.9999116517		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	3	11.4829632
Longitude	94	7	40.0573704
Ellipsoid Height (M):	339.175		
Geoid Height (M):	-28.527		

Location Description

FROM THE JCT. OF HWY. 16 AND HWY. 265 ON THE EAST SIDE OF FAYETTEVILLE, GO WEST ON HWY. 16 FOR 0.06 KM (0.04 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.9 METERS SOUTH OF THE CENTER OF HWY. 16, 20.5 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 13.4 METERS NORTHEAST OF A FRAME HOUSE AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TRAFFIC SIGNAL BOX	3	5.85	19.2
MK # 2	COMBINATION POLE	264	24.75	81.2
MK # 3	NONE			

AZ Mark Station	720013A
Geodetic Azimuth	73 21 30.20675
Grid Azimuth	74 35 47.670136

Area Reference Monuments (used for Processing)

Ref Mon # 1	SPRINGDALE 1935
Ref Mon # 2	PRICE 1940
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720013A	6/13/1995	AHTD	WASHINGTON	16	4999

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	193,051.3210	
Easting (M)	208,926.5910	
Elevation (M)*	367.126	
Northing (SFT)	633,369.2090	
Easting (SFT)	685,453.3240	
Elevation (SFT)*	1,204.479	

Convergence Angle	-1	14	2.9018479
Scale Factor			0.999969591
Elevation Adjust. Factor			0.9999423893
Combined Adjust. Factor			0.9999119820

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	3	17.5214808
Longitude	94	7	15.1752972
Ellipsoid Height (M):	338.602		
Geoid Height (M):	-28.524		

Location Description

FROM THE JCT. OF HWY. 16 AND HWY. 265 ON THE EAST SIDE OF FAYETTEVILLE, GO EAST ON HWY. 265 FOR 0.57 KM (0.36 MILES) TO THE STATION ON THE LEFT IN FRONT OF A BRICK AND METAL BUILDING. THE STATION IS 11.7 METERS NORTH OF THE CENTER OF HWY. 16, 9.0 METERS EAST OF THE CENTER OF A CONCRETE DRIVEWAY AND 0.635 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	70	20.70	67.9
MK # 2	16" METAL CROSS DRAIN	225	5.30	17.4
MK # 3	CENTER OF WATER METER COVER	260	19.85	65.1

AZ Mark Station	720013
Geodetic Azimuth	253 21 44.85105
Grid Azimuth	254 35 47.67014

Area Reference Monuments (used for Processing)

Ref Mon # 1	SPRINGDALE 1935
Ref Mon # 2	PRICE 1940
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720014	6/13/1995	AHTD	WASHINGTON	45	040440, 040474, 4999

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,686.8219	
Easting (M)	209,297.1350	
Elevation (M)*	436.069	
Northing (SFT)	645,296.6815	
Easting (SFT)	686,669.0171	
Elevation (SFT)*	1,430.670	

Convergence Angle	-1	13	56.1062725
Scale Factor			0.999974455
Elevation Adjust. Factor			0.9999315712
Combined Adjust. Factor			0.9999060280

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	5	15.7065036
Longitude	94	7	3.4970268
Ellipsoid Height (M):	408.101		
Geoid Height (M):	-27.941		

Location Description

TO REACH NTHE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 45, EAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 45 0.24 MILES TO THE STATION MARK ON THE RIGHT, 11.10 METERS SOUTH OF THE CENTERLINE OF HIGHWAY 45 AND 8.10 METERS WEST OF THE CENTERLINE OF HUNTERS RIDGE ROAD, AND 2.82 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720014 1995" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSJH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	164	3.00	9.8
MK # 2	8" WATER VALVE COVER	228	15.24	50.0
MK # 3				

AZ Mark Station	720042
Geodetic Azimuth	263 05 41
Grid Azimuth	264 19 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	A 309
Ref Mon # 3	ENES

Comments

Elevation was converted from NGVD29 to NAVD88 by MSK using CORPSCON on Oct 20,2005. NGVD29 Elev=435.9110 Meters. 3-Wire Levels ran from NGS BM H 27 by crew S5101 on 12-5-06 on job 040474.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720014A	6/13/1995	AHTD	WASHINGTON	45	4999

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	196,641.7729	
Easting (M)	208,804.6160	
Elevation (M)*	429.827	
Northing (SFT)	645,148.8833	
Easting (SFT)	685,053.1443	
Elevation (SFT)*	1,410.191	

Convergence Angle	-1	14	7.5370494
Scale Factor	0.999974378		
Elevation Adjust. Factor	0.9999325507		
Combined Adjust. Factor	0.9999069304		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	5	13.9011504
Longitude	94	7	23.1409416
Ellipsoid Height (M):	401.302		
Geoid Height (M):	-28.525		

Location Description

FROM THE JCT. OF HWY. 45 AND HWY. 265 ON THE EAST SIDE OF FAYETTEVILLE, GO WESTERLY ON HWY. 45 FOR 0.096 KM (0.06 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.4 METERS SOUTH OF THE CENTER OF HWY. 45 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720014A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	91	16.65	54.6
MK # 2	COMBINATION POLE	271	25.90	85.0
MK # 3	NONE			

AZ Mark Station	720014
Geodetic Azimuth	83 30 20.11129
Grid Azimuth	84 44 27.71825

Area Reference Monuments (used for Processing)

Ref Mon # 1	SPRINGDALE 1935
Ref Mon # 2	PRICE 1940
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030019A	3/16/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,443.2678	0.0030
Easting (M)	375,987.6079	0.0020
Elevation (M)*	232.471	
Northing (SFT)	677,305.9544	
Easting (SFT)	1,233,552.6769	
Elevation (SFT)*	762.697	

Convergence Angle	0	9	19.2735036
Scale Factor	0.999992430		
Elevation Adjust. Factor	0.9999635191		
Combined Adjust. Factor	0.9999559494		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	11	37.7265624
Longitude	92	16	1.1176176
Ellipsoid Height (M):	204.116		0.0140
Geoid Height (M):	-28.239		

Location Description

FROM THE NORFORK, AR. POST OFFICE, AT THE INTERSECTION OF HWY. 5 AND CHASTAIN ST., GO SOUTH ALONG HWY 5; 2.00 MILES TO THE INTESECTION OF HWY. 5 AND HWY. 177 SOUTH. TURN RIGHT (SOUTHWESTENLY) ON HWY. 177 SOUTH AND GO 0.48 MILES TO THE STATION MARK ON THE LEFT, BEING 44.0 FEET SOUTH OF THE CENTERLINE OF CURBSTONE LANE, 30.6 FEET EAST OF HWY 177 SOUTH AND 1.0 FEET WEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030019A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	295	25.05	82.2
MK # 2	CL CURBSTONE LANE	355	13.41	44.0
MK # 3	CL HWY. 177	270	9.33	30.6

AZ Mark Station	030019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030020	3/16/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,731.6723	0.0030
Easting (M)	375,601.5770	0.0020
Elevation (M)*	199.983	

Northing (SFT)	691,375.4949	
Easting (SFT)	1,232,286.1739	
Elevation (SFT)*	656.110	

Convergence Angle	0	9	28.5398259
Scale Factor	0.999999829		
Elevation Adjust. Factor	0.9999686172		
Combined Adjust. Factor	0.9999684462		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	13	56.8221672
Longitude	92	16	17.0418936
Ellipsoid Height (M):	171.595	0.0140	
Geoid Height (M):	-28.279		

Location Description

FROM THE SOUTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO SOUTHWESTERNLY ALONG HWY. 5; 0.93 MILES TO THE STATION MARK ON THE LEFT, BEING 39.0 FEET SOUTHWESTERLY OF THE CENTELINE OF HWY. 5, 22.5 FEET SOUTHWESTERLYL OF THE CENTERLINE OF BONNER DR. AND 1.0 FEET NORTH OF A WITHNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030020", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY. 5	295	11.89	39.0
MK # 2	CL BONNER DR.	20	6.86	22.5
MK # 3	WOOD FENCE CORNER	195	1.52	5.0

AZ Mark Station	030020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030020A	3/17/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,973.1610	0.0040
Easting (M)	375,696.9135	0.0030
Elevation (M)*	208.047	
Northing (SFT)	692,167.7790	
Easting (SFT)	1,232,598.9570	
Elevation (SFT)*	682.568	

Convergence Angle	0	9	26.3337260	
Scale Factor	1.000000260			
Elevation Adjust. Factor	0.9999673517			
Combined Adjust. Factor	0.9999676117			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	14	4.6653000	
Longitude	92	16	13.2506868	
Ellipsoid Height (M):	179.653			0.0150
Geoid Height (M):	-28.280			

Location Description

FROM THE SOUTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO SOUTHWESTERNLY ALONG HWY. 5; 0.77 MILES TO THE STATION MARK ON THE RIGHT, BEING 39.5 FEET NORTHWESTERLY OF THE CENTELINE OF HWY. 5, 12.1 FEET NORTHERLY OF THE CENTERLINE OF WINTERBERRY DR. AND 1.0 FEET EAST OF A WITHNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030020A", SET ON TOP OF A 5/8" REBAR.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY. 5	110	12.04	39.5
MK # 2	18" DOUBLE PINE TREE	280	8.23	27.0
MK # 3	CL WINTERBERRY DR.	170	3.69	12.1

AZ Mark Station	030020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030021	3/2/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,341.2312	0.0030
Easting (M)	375,294.4735	0.0030
Elevation (M)*	236.668	
Northing (SFT)	696,656.1894	
Easting (SFT)	1,231,278.6185	
Elevation (SFT)*	776.469	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	14	49.0133652	
Longitude	92	16	29.5198104	
Ellipsoid Height (M):	208.262			0.0140
Geoid Height (M):	-28.288			

Convergence Angle	0	9	35.8007148
Scale Factor	1.000002724		
Elevation Adjust. Factor	0.9999628604		
Combined Adjust. Factor	0.9999655843		

Location Description

FROM THE NORTWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 0.53 MILES TO THE INTERSECTION OF HWY. 5 AND SCHWARTZ RD. TURN LEFT (SOUTH) ON SCHWARTZ RD. AND GO 455 FEET TO THE INTERSECTION OF SCHWARTZ RD. AND WILSON DR., TO THE STATION MARK TO THE SOUTHWEST, BEING 23.0 FEET WEST OF THE CENTERLINE OF SCHWARTZ RD., 24.0 FEET SOUTHERLY OF THE CENTERLINE OF WILSON DR. AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030021" SET ON TOP OF A 5/8" REBAR.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16" ELM TREE	280	16.09	52.8
MK # 2	CL SCHWARTZ RD.	95	7.01	23.0
MK # 3	CL WILSON DR.	10	7.31	24.0

AZ Mark Station	030021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030021A	3/2/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,450.4542	0.0030
Easting (M)	375,038.5602	0.0030
Elevation (M)*	244.261	

Northing (SFT)	697,014.5318	
Easting (SFT)	1,230,439.0096	
Elevation (SFT)*	801.379	

Convergence Angle	0	9	41.7723217
Scale Factor	1.000002921		
Elevation Adjust. Factor	0.9999616690		
Combined Adjust. Factor	0.9999645899		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	14	52.5335748
Longitude	92	16	39.7820820
Ellipsoid Height (M):	215.853		0.0140
Geoid Height (M):	-28.288		

Location Description

FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 0.53 MILES TO THE INTERSECTION OF HWY. 5 AND SCHWARTZ RD. TURN LEFT (SOUTH) ON SCHWARTZ RD. AND GO 455 FEET TO THE INTESECTION OF SCHWARTZ RD. AND WILSON DR. TURN RIGHT (NORTHWESTERLY) ON WILSON DR. AND GO 920 FEET TO THE STATION MARK ON THE RIGHT, BEING 12.0 FEET NORTHERLY OF THE CENTERLINE OF WILSON DR. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030021A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF A CHAINLINK FENCE	180	12.04	39.5
MK # 2	CL WILSON DR.	195	3.66	12.0
MK # 3	POWER POLE	13	3.66	12.0

AZ Mark Station	030021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030022	3/2/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	214,784.2570	0.0020
Easting (M)	373,794.6428	0.0020
Elevation (M)*	267.498	
Northing (SFT)	704,671.3498	
Easting (SFT)	1,226,357.9239	
Elevation (SFT)*	877.617	

Convergence Angle	0	10	10.9250456
Scale Factor			1.000007234
Elevation Adjust. Factor			0.9999580226
Combined Adjust. Factor			0.9999652563

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	16	8.1317928
Longitude	92	17	29.8813560
Ellipsoid Height (M):	239.058		0.0130
Geoid Height (M):	-28.304		

Location Description

FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 2.60 MILES TO THE INTERSECTION OF HWY. 5 AND SCENIC DR.. TURN RIGHT (EASTERLY) ON SCENIC DR.. AND GO 150 FEET TO THE STATION MARK ON THE RIGHT, BEING 23.4 FEET SOUTH OF THE CENTERLINE OF SCENIC DR. AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030022", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	272	28.28	92.8
MK # 2	CL SCENIC DR.	355	7.13	23.4
MK # 3	SPEED LIMIT SIGN	85	4.18	13.7

AZ Mark Station	030022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030022A	3/2/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	214,883.2682	0.0040
Easting (M)	374,044.4925	0.0030
Elevation (M)*	267.695	
Northing (SFT)	704,996.1891	
Easting (SFT)	1,227,177.6391	
Elevation (SFT)*	878.263	

Convergence Angle	0	10	5.1071097
Scale Factor	1.000007421		
Elevation Adjust. Factor	0.9999579917		
Combined Adjust. Factor	0.9999654124		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	16	11.3678652
Longitude	92	17	19.8831696
Ellipsoid Height (M):	239.246		0.0140
Geoid Height (M):	-28.304		

Location Description

FROM THE NORTHWESTERLY "Y" INTERSECTION OF HWY. 5 AND HWY. 177 NORTH, GO NORTH ALONG HWY. 5; 2.60 MILES TO THE INTESECTION OF HWY. 5 AND SCENIC DR. TURN RIGHT (EASTERLY) ON SCENIC DR. AND GO 1000 FEET TO THE STATION MARK ON THE LEFT, BEING 29.8 FEET NORTH OF THE CENTERLINE OF SCENIC DR., 29.0 FEET EAST OF THE CENTERLINE OF DUNCAN GRAY DR. AND 1.0 FEET SOUTH OF A WITHNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030022A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL SCENIC DR.	180	9.08	29.8
MK # 2	CL DUNCAN GRAY DR.	270	8.84	29.0
MK # 3	STREET SIGN	295	1.86	6.1

AZ Mark Station	030022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030023	2/25/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,679.7997	0.0030
Easting (M)	369,944.0373	0.0030
Elevation (M)*	267.366	
Northing (SFT)	714,171.1428	
Easting (SFT)	1,213,724.7290	
Elevation (SFT)*	877.183	

Convergence Angle	0	11	40.9228884
Scale Factor	1.000012756		
Elevation Adjust. Factor	0.9999580433		
Combined Adjust. Factor	0.9999707988		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	17	41.6728860
Longitude	92	20	4.5436308
Ellipsoid Height (M):	238.874		0.0140
Geoid Height (M):	-28.331		

Location Description

FROM THE INTERSECTION OF HWY. 5 AND U.S. 62/412 (SHEILD-HOPPER) BYPASS, GO SOUTH ALONG HWY. 5; 2.78 MILES TO THE INTERSECTION OF HWY. 5 AND LAGERGORG LN. (ENTRANCE TO THE DR. RAY STAHL SOCCOR COMPLEX). TURN RIGHT (SOUTHWESTERLY) ON LAGERBORG LN. AND GO 1000 FEET TO A CUL DE SAC AND THE INTERSECTION OF LAGERBORG LN. AND KENTON TREAT DR. TURN RIGHT (NORTHWESTERLY) ON KENTON TREAT DR. AND GO 480 FEET TO THE STATION MARK ON THE RIGHT, BEING 48.3 FEET NORTHWESTERLY OF THE CENTERLINE OF KENTON TREAT DR. AND 1.0 FEET EAST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030023", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	10" BOX ELDER TREE	320	15.36	50.4
MK # 2	CL KENTON TREAT DR.	260	14.72	48.3
MK # 3	2-1/2" STEEL POST	300	0.79	2.6

AZ Mark Station	030023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030023A	2/25/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	218,049.6248	0.0020
Easting (M)	369,870.1637	0.0020
Elevation (M)*	269.468	
Northing (SFT)	715,384.4774	
Easting (SFT)	1,213,482.3621	
Elevation (SFT)*	884.081	

Convergence Angle	0	11	42.6750309
Scale Factor	1.000013479		
Elevation Adjust. Factor	0.9999577134		
Combined Adjust. Factor	0.9999711918		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	17	53.6626680
Longitude	92	20	7.5547068
Ellipsoid Height (M):	240.974		0.0140
Geoid Height (M):	-28.333		

Location Description

FROM THE INTERSECTION OF HWY. 5 AND U.S. 62/412 (SHEILD-HOPPER) BYPASS, GO SOUTH ALONG HWY. 5; 2.47 MILES TO THE INTERSECTION OF HWY. 5 AND COUNTY RD. 573 (BROUGH RD.) TURN RIGHT (WESTERLY) ON COUNTY RD. 573 AND GO 606 FEET TO THE INTERSECTION OF COUNTY RD. 573 AND KENTON TREAT DR. TURN LEFT (SOUTH) ON KENTON TREAT DR. AND GO 63 FEET TO THE STATION MARK ON THE LEFT, BEING 37.1 FEET EAST OF THE CENTERLINE OF KENTON TREAT DR. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030023A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL CO. RD. 573	0	17.71	58.1
MK # 2	CL KENTON TREAT DR.	270	11.31	37.1
MK # 3	POWER POLE	358	10.67	35.0

AZ Mark Station	030023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030024	2/26/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	221,293.0497	0.0030
Easting (M)	368,188.3632	0.0020
Elevation (M)*	270.781	
Northing (SFT)	726,025.6139	
Easting (SFT)	1,207,964.6549	
Elevation (SFT)*	888.388	

Convergence Angle	0	12	22.1690950
Scale Factor	1.000019956		
Elevation Adjust. Factor	0.9999575074		
Combined Adjust. Factor	0.9999774626		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	19	38.6946912
Longitude	92	21	15.4256868
Ellipsoid Height (M):	242.282	0.0130	
Geoid Height (M):	-28.354		

Location Description

THE STATION MARK IS LOCATED ON TOP OF THE BLUFF AT THE SOUTHEASTERLY CORNER OF THE INTERSECTION OF HWY. 5 AND U.S. 62/412 (SHEID-HOPPER) BYPASS, BEING 65.4 FEET NORTHEASTERLY OF THE SOUTHEAST END OF THE PARAPET WALL OF THE HWY. 5 BRIDGE OVER THE U.S. 62/412 (SHEID-HOPPER) BYPASS, 26.0 FEET SOUTHEAST OF THE EDGE OF THE BLUFF AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030024", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SE END OF HWY. 5 BR PARAPET WALL	245	19.93	65.4
MK # 2	SE CORNER OF CONC DITCH PAVING	217	13.11	43.0
MK # 3	EDGE OF BLUFF	320	7.92	26.0

AZ Mark Station	030024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030024A	2/26/2015	CLSI	BAXTER	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	221,448.0603	0.0030
Easting (M)	368,458.9219	0.0030
Elevation (M)*	261.085	
Northing (SFT)	726,534.1778	
Easting (SFT)	1,208,852.3129	
Elevation (SFT)*	856.576	

Convergence Angle	0	12	15.8698850
Scale Factor	1.000020275		
Elevation Adjust. Factor	0.9999590289		
Combined Adjust. Factor	0.9999793031		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	19	43.7549592
Longitude	92	21	4.6004256
Ellipsoid Height (M):	232.589		0.0130
Geoid Height (M):	-28.354		

Location Description

THE STATION MARK IS LOCATED NEAR THE EASTERN END OF THE ON RAMP FROM HWY.5 TO THE U.S. 62/412 (SHEID-HOPPER) BYPASS. FROM THE INTERSECTION OF THE ON RAMP AND HWY. 5, GO 1200 FEET ALONG THE ON RAMP TO THE STATION MARK ON THE RIGHT, BEING 38.0 FEET SOUTHEASTERLY OF THE EDGE OF PAVEMENT OF THE ON RAMP AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "030024A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EP OF U.S. HWY. 62/412 BYPASS ON-RAMP	315	11.58	38.0
MK # 2	EP GOLDEN STAR LANE	135	4.24	13.9
MK # 3	WEB WIRE FENCE	135	1.83	6.0

AZ Mark Station	030024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030025	6/5/2024	ARDOT	BAXTER	62/412	012390

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	226,195.9049	0.0020
Easting (M)	379,171.6484	0.0020
Elevation (M)*	183.025	0.0000
Northing (SFT)	742,111.0647	
Easting (SFT)	1,243,998.9831	
Elevation (SFT)*	600.475	

Convergence Angle	0	8	6.1986265
Scale Factor	1.000030332		
Elevation Adjust. Factor	0.9999712782		
Combined Adjust. Factor	1.0000016094		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	22	18.8119740
Longitude	92	13	55.5376440
Ellipsoid Height (M):	154.639		0.0080
Geoid Height (M):	-28.386		

Location Description

From the intersection of U. S. Highway 62/412 and U. S. Highway 62B on the East Side of Mountain Home in Baxter County Arkansas, travel East along U. S. Highway 62/412 for 6.6 Miles to the intersection with Porter Circle and the Station on the Right . The Station is a standard 2.5 inch AHTD GPS cap stamped 030025 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 95 feet (31.7 Meters) East of the Centerline of U.S Highway 62/412 and 70 feet (21.3 Meters) South of the Centerline of Porter Circle.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Light Pole	198	15.50	50.9
MK # 2	Water Meter	127	8.50	27.9
MK # 3	S. End 18" Metal Culvert	330	21.30	69.9

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Located in grassy area next to R.V. dump station on C.O. E. Property

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
030026	5/6/2024	ARDOT	BAXTER	62/412	012390

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	227,175.8691	0.0010
Easting (M)	382,707.3876	0.0010
Elevation (M)*	267.044	0.0063
Northing (SFT)	745,326.1639	
Easting (SFT)	1,255,599.1542	
Elevation (SFT)*	876.128	

Convergence Angle	0	6	43.7084611
Scale Factor	1.000032481		
Elevation Adjust. Factor	0.9999580938		
Combined Adjust. Factor	0.9999905735		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	22	50.8507032	
Longitude	92	11	33.7773948	
Ellipsoid Height (M):	238.651			0.0050
Geoid Height (M):	-28.352			

Location Description

From the intersection of U. S. Highway 62/412 and U. S. Highway 62B on the East Side of Mountain Home in Baxter County Arkansas, travel East along U. S. Highway 62/412 for 9.6 Miles to the intersection with Chappie Lane and the Station on the Right . The Station is a standard 2.5 inch AHTD GPS cap stamped 030026 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 46 feet (14.0 Meters) South East of the Centerline of U.S Highway 62/412 and 32 feet (9.7 Meters) South of the Centerline of Chappie Lane.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	38	25.00	82.0
MK # 2	Telephone Box	200	25.90	85.0
MK # 3	S. W. End 18" Metal Culvert	355	7.00	23.0

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040001	12/1/1998	AHTD	BENTON	412	090024,1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,834.3390	
Easting (M)	174,357.1320	
Elevation (M)*	355.241	
Northing (SFT)	681,869.8272	
Easting (SFT)	572,036.6906	
Elevation (SFT)*	1,165.487	

Convergence Angle	-1	27	35.1574661
Scale Factor			0.999990029
Elevation Adjust. Factor			0.9999442542
Combined Adjust. Factor			0.9999342838

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	10	50.6693892
Longitude	94	30	31.0470984
Ellipsoid Height:			326.115
Grid Northing (Meters)			207,834.8770
Grid Easting (Meters)			174,357.1043

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	50.6519616
Longitude	94	30	31.0454388
Ellipsoid Height (M):	326.922		
Geoid Height (M):	-28.225		

Location Description

TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 5.71 KM (3.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.56 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 11.50 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.85 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "91040001" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC COMBINATION POLE	272	25.82	84.7
MK # 2	NBC FENCE POST	85	9.28	30.4
MK # 3	NBC COMBINATION POLE	88	25.28	82.9

AZ Mark Station	040001A
Geodetic Azimuth	86 21 02.825763
Grid Azimuth	87 48 38.064155

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	FLINT
Ref Mon # 3	V 26

Comments

OLD PN: 91040001

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040001A	12/1/1998	AHTD	BENTON	412	090024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,852.6910	
Easting (M)	174,837.1620	
Elevation (M)*	350.727	
Northing (SFT)	681,930.0371	
Easting (SFT)	573,611.5890	
Elevation (SFT)*	1,150.677	

Convergence Angle	-1	27	23.9933913
Scale Factor			0.999990079
Elevation Adjust. Factor			0.9999449625
Combined Adjust. Factor			0.9999350421

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	10	51.6435024	
Longitude	94	30	11.8598544	
Ellipsoid Height (M):	322.439			
Geoid Height (M):	-28.219			

Location Description

TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 6.20 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412, 3.85 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.38 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040001A" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IN LINE BRACE POST	324	1.84	6.0
MK # 2	CORNER POST	41	2.28	7.5
MK # 3	GATE POST	71	1.84	6.0

AZ Mark Station	140001
Geodetic Azimuth	266 21 14.15171
Grid Azimuth	267 48 38.06416

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	FLINT
Ref Mon # 3	V 26

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040002	3/15/1991	AHTD	BENTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	207,850.6330
Easting (M)	174,906.6360
Elevation (M)*	
Northing (SFT)	681,923.2851
Easting (SFT)	573,839.5216
Elevation (SFT)*	
Convergence Angle	-1 27 22.3748365
Scale Factor	0.999990079
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	51.6340452
Longitude	94	30	9.0783504
Ellipsoid Height (M):	321.446		
Geoid Height (M):	-28.730		

Location Description

FROM SILOAM SPRINGS, GO EAST ON HWY. 412 3.90 MILES TO STATION ON THE LEFT. THE STATION IS 65.40 FEET LEFT OF CENTERLINE OF HWY. 412, 5.20 FEET SOUTH OF A WITNESS POST, ACROSS HWY. FROM 4 R'S CONSTRUCTION CO. DRIVEWAY, APPROXIMATELY 250 FEET EAST OF FIRE HYDRANT.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91040001
Geodetic Azimuth	266 54 06
Grid Azimuth	268 21 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91040002

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040003	3/15/1991	AHTD	BENTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	207,010.1289	
Easting (M)	179,630.3880	
Elevation (M)*		
Northing (SFT)	679,165.7312	
Easting (SFT)	589,337.3646	
Elevation (SFT)*		

Convergence Angle	-1	25	31.9186472
Scale Factor	0.999988904		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	28.2272124
Longitude	94	26	59.2581840
Ellipsoid Height (M):	272.682		
Geoid Height (M):	-28.694		

Location Description

FROM STATE LINE IN SILOAM SPRINGS, GO 7.125 MILES TO A COUNTY ROAD JCT. AND STATION ON THE LEFT, IN CORNER OF PASTURE ON LEFT SIDE OF COUNTY ROAD, ACROSS HWY. FROM WEST ENTRANCE OF REST AREA, 3.30 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN TELEPHONE POLE	135	8.69	28.5
MK # 2	TOP EDGE OF STEEL FENCE POST	120	6.92	22.7
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91040004 AZ. MK.
Geodetic Azimuth	319 32 15
Grid Azimuth	320 57 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91040003

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040004	3/15/1991	AHTD	BENTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	207,226.9210	
Easting (M)	179,454.6010	
Elevation (M)*		
Northing (SFT)	679,876.9900	
Easting (SFT)	588,760.6368	
Elevation (SFT)*		

Convergence Angle	-1	25	36.1363310
Scale Factor	0.999989248		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	35.1166548
Longitude	94	27	6.5063196
Ellipsoid Height (M):	298.007		
Geoid Height (M):	-28.696		

Location Description

FROM SILOAM SPRINGS, GO 7.125 MILES EAST FROM STATE LINE TO COUNTY ROAD ON LEFT, GO 0.08 MILES TO FIELD ROAD ON LEFT AND CONTINUE ON TO GAP IN CROSS FENCE. PASS THROUGH GAP AND CONTINUE TO TOP OF HILL AND STATION, 2.40 FEET EAST OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	335	16.55	54.3
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91040003
Geodetic Azimuth	139 32 11
Grid Azimuth	140 57 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91040004

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040005	3/15/1991	AHTD	BENTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	207,138.9389	
Easting (M)	187,111.2620	
Elevation (M)*		
Northing (SFT)	679,588.3354	
Easting (SFT)	613,880.8654	
Elevation (SFT)*		

Convergence Angle	-1	22	37.8460688
Scale Factor	0.999989410		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	38.3406816
Longitude	94	22	0.1125588
Ellipsoid Height (M):	280.818		
Geoid Height (M):	-28.649		

Location Description

FROM SILOAM SPRINGS, GO 12.12 MILES EAST FROM STATE LINE ON HWY. 412 TO THE STATION ON THE RIGHT, THE STATION IS 0.30 FEET SOUTH OF A WITNESS POST, 750 FEET EAST OF A LARGE BARN.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" ELM	0	16.67	54.7
MK # 2	NBC IN TELEPHONE POLE	40	16.46	54.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91040006 AZ. MK.
Geodetic Azimuth	201 16 46
Grid Azimuth	202 39 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91040005

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040006	3/15/1991	AHTD	BENTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	206,476.5720	
Easting (M)	186,834.7750	
Elevation (M)*		
Northing (SFT)	677,415.2200	
Easting (SFT)	612,973.7576	
Elevation (SFT)*		

Convergence Angle	-1	22	43.9113819
Scale Factor	0.999988327		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	16.6414512
Longitude	94	22	10.5358656
Ellipsoid Height (M):	275.381		
Geoid Height (M):	-28.648		

Location Description

FROM SILOAM SPRINGS, GO 12.0 MILES EAST ON HWY. 412 TO A LARGE BARN AND FIELD ROAD ON THE RIGHT, FOLLOW ROAD TO RIVER CROSSING, CROSS RIVER AND FOLLOW ROAD 030MILES TO THE STATION ON THE LEFT, THE STATION IS 150 FEET FROM CENTERLINE OF THE ROAD, 2.50 FEET NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN DOUBLE 14" ASH	88	16.89	55.4
MK # 2	NBC IN 36" MAPLE	267	23.65	77.6
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91040005
Geodetic Azimuth	21 16 40
Grid Azimuth	22 39 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91040006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040007	3/15/1991	AHTD	BENTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	207,462.1770	
Easting (M)	184,464.3650	
Elevation (M)*		
Northing (SFT)	680,648.8257	
Easting (SFT)	605,196.8375	
Elevation (SFT)*		

Convergence Angle	-1	23	39.6471372
Scale Factor	0.999989832		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	10	46.7478912	
Longitude	94	23	46.3183692	
Ellipsoid Height (M):	288.859			
Geoid Height (M):	-28.664			

Location Description

FROM SILOAM SPRINGS, GO EAST ON HWY. 412 10.47 MILES TO THE STATION ON THE LEFT, THE STATION IS 1.20 FEET SOUTH OF A WITNESS POST, 150 FEET EAST OF A PRIVATE DRIVE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91040008 AZ. MK.
Geodetic Azimuth	193 45 14
Grid Azimuth	195 08 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91040007

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040008	3/15/1991	AHTD	BENTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	206,298.8530	
Easting (M)	184,149.4250	
Elevation (M)*		
Northing (SFT)	676,832.1536	
Easting (SFT)	604,163.5719	
Elevation (SFT)*		

Convergence Angle	-1	23	46.3188533
Scale Factor	0.999987937		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	8.7675924
Longitude	94	23	57.7837860
Ellipsoid Height (M):	295.150		
Geoid Height (M):	-28.663		

Location Description

FROM SILOAM SPRINGS, GO EAST ON HWY. 412 10.70 MILES TO A COUNTY ROAD ON THE RIGHT, GO 1.10 MILES TO A FIELD ENTRANCE AND THE STATION ON THE LEFT, THE STATION IS ON THE RIGHT SIDE OF CENTERLINE OF THE FIELD ENTRANCE, 20 FEET AND 33 FEET FROM THE CENTERLINE OF THE COUNTY ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN TOP OF FENCE POST	138	20.62	67.7
MK # 2	NBC IN TOP OF FENCE POST	2	2.99	9.8
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91040007
Geodetic Azimuth	13 45 08
Grid Azimuth	15 08 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91040008

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040009	4/26/1993	AHTD	BENTON	71	290072,R90014,012069,09025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,334.5021	
Easting (M)	203,976.4150	
Elevation (M)*	397.901	
Northing (SFT)	736,004.1123	
Easting (SFT)	669,212.6215	
Elevation (SFT)*	1,305.449	

Convergence Angle	-1	16	14.0960716
Scale Factor	1.000021855		
Elevation Adjust. Factor	0.9999375602		
Combined Adjust. Factor	0.9999594138		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	8.7067428
Longitude	94	11	0.6340020
Ellipsoid Height (M):	369.876		
Geoid Height (M):	-28.051		

Location Description

THE STATION IS ON HWY. 71 AT THE HWY. 71B OVERPASS ON THE NORTHWEST END OF THE BRIDGE OVER HWY. 71B, 169.80 FEET NORTH OF THE BRIDGE END, 29 FEET WEST OF THE THE CENTERLINE OF THE SOUTHBOUND LANE AND 2 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	18	3.98	13.1
MK # 2	PUNCH POINT IN GUARD RAIL POST	157	2.28	7.5
MK # 3	PUNCH POINT IN GUARD RAIL POST	183	7.74	25.4

AZ Mark Station	040009A
Geodetic Azimuth	18 03 52
Grid Azimuth	19 20 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	040044, 040044A
Ref Mon # 2	ARFY
Ref Mon # 3	V 26

Comments

3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040010A	4/26/1993	AHTD	BENTON	71	R90014

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	224,386.7331
Easting (M)	207,558.1470
Elevation (M)*	
Northing (SFT)	736,175.4735
Easting (SFT)	680,963.6873
Elevation (SFT)*	

Convergence Angle	-1	14	50.5716266
Scale Factor	1.000022126		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	20	12.9538644
Longitude	94	8	37.0963320
Ellipsoid Height (M):	372.498		
Geoid Height (M):	-28.712		

Location Description

FROM THE JCT. OF HWY. 71B AND DIXIELAND ROAD IN ROGERS, GO NORTH ON DIXIELAND ROAD 0.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 27 FEET WEST OF THE CENTERLINE OF DIXIELAND ROAD AND 2 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT IN CORNER POST	0	30.52	100.1
MK # 2	PUNCH POINT IN CORNER POST	320	41.54	136.3
MK # 3	NBC POWER POLE	159	36.93	121.2

AZ Mark Station	93040010
Geodetic Azimuth	204 56 17.51588
Grid Azimuth	206 11 08.05680

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT NGS
Ref Mon # 2	ROGPORT NGS
Ref Mon # 3	V 26 NGS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040011	4/26/1993	AHTD	BENTON	72	R90027

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	231,618.2981	
Easting (M)	194,845.3720	
Elevation (M)*	417.943	
Northing (SFT)	759,901.0330	
Easting (SFT)	639,255.1913	
Elevation (SFT)*	1,371.201	

Convergence Angle	-1	19	51.0359001
Scale Factor	1.000037079		
Elevation Adjust. Factor	0.9999344154		
Combined Adjust. Factor	0.9999714920		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	23	58.2186876	
Longitude	94	17	13.4474640	
Ellipsoid Height (M):	389.154			
Geoid Height (M):	-28.789			

Location Description

FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 5.54 MILES TO THE STATION ON THE LEFT. THE STATION IS 38 FEET SOUTH OF THE CENTERLINE OF HWY. 72, 22 FEET WEST OF A DRIVEWAY AND 2.2 FEET EAST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	188	2.71	8.9
MK # 2	NBC IN FENCE POST	330	32.21	105.7
MK # 3	NBC IN FENCE POST	348	2.81	9.2

AZ Mark Station	9304011A AZ. MK. **
Geodetic Azimuth	318 21 21.96148
Grid Azimuth	319 41 12.90484

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	93040009 & 9304009A

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040011A	4/26/1993	AHTD	BENTON	72	R90027

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	232,077.2291	
Easting (M)	194,455.9900	
Elevation (M)*	418.513	
Northing (SFT)	761,406.7091	
Easting (SFT)	637,977.6939	
Elevation (SFT)*	1,373.071	

Convergence Angle	-1	20	0.3753552
Scale Factor	1.000038089		
Elevation Adjust. Factor	0.9999343260		
Combined Adjust. Factor	0.9999724125		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	24	12.8091816
Longitude	94	17	29.4974196
Ellipsoid Height (M):	389.718		
Geoid Height (M):	-28.793		

Location Description

FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 5.86 MILES TO THE STATION ON THE LEFT. THE STATION IS 38 FEET SOUTH OF THE CENTERLINE OF HWY. 72, 43 FEET WEST OF A GRAVEL DRIVEWAY AND 1.7 FEET NORTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	118	17.34	56.9
MK # 2	NBC IN FENCE POST	140	1.69	5.5
MK # 3	NBC IN FENCE POST	292	3.68	12.1

AZ Mark Station	93040011 *******
Geodetic Azimuth	138 21 12.43679
Grid Azimuth	139 41 12.90484

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	93040009 & 9304009A

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040012	4/26/1993	AHTD	BENTON	72	R90027

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	228,277.2071	
Easting (M)	197,391.6190	
Elevation (M)*	382.836	
Northing (SFT)	748,939.4703	
Easting (SFT)	647,609.0033	
Elevation (SFT)*	1,256.021	

Convergence Angle	-1	18	49.8047655
Scale Factor	1.000029863		
Elevation Adjust. Factor	0.9999399242		
Combined Adjust. Factor	0.9999697854		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	22	11.7646608
Longitude	94	15	28.2210912
Ellipsoid Height (M):	354.081		
Geoid Height (M):	-28.754		

Location Description

FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 1.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 57 FEET SOUTH OF THE CENTERLINE OF HWY. 72, 66 FEET WEST OF THE CENTERLINE OF MEMORIAL ROAD AND 2 FEET NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	114	17.79	58.4
MK # 2	CENTER OF TOP OF TELEPHONE BOX	119	15.59	51.1
MK # 3	NBC IN 30" OAK TREE	238	28.87	94.7

AZ Mark Station	9304012A AZ. MK. **
Geodetic Azimuth	274 00 04.04965
Grid Azimuth	275 18 53.79822

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	93040009 & 9304009A

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040012A	4/26/1993	AHTD	BENTON	72	R90027

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	228,300.6481	
Easting (M)	197,139.6560	
Elevation (M)*	381.635	
Northing (SFT)	749,016.3763	
Easting (SFT)	646,782.3547	
Elevation (SFT)*	1,252.081	

Convergence Angle	-1	18	55.6972273
Scale Factor	1.000029901		
Elevation Adjust. Factor	0.9999401126		
Combined Adjust. Factor	0.9999700118		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	22	12.3373848
Longitude	94	15	38.3473512
Ellipsoid Height (M):	352.881		
Geoid Height (M):	-28.754		

Location Description

FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO WEST ON HWY. 72 2.27 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23 FEET NORTH OF THE CENTERLINE OF HWY. 72 AND 3 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN FENCE POST	86	21.63	71.0
MK # 2	NBC IN FENCE POST	180	13.85	45.4
MK # 3	NBC IN POWER POLE	248	37.00	121.4

AZ Mark Station	93040012 ****
Geodetic Azimuth	93 59 58.044787
Grid Azimuth	95 18 53.798217

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	93040009 & 9304009A

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040013A	4/26/1993	AHTD	BENTON	72	090178,R90027

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	229,336.2011
Easting (M)	200,685.0120
Elevation (M)*	386.188
Northing (SFT)	752,413.8531
Easting (SFT)	658,414.0769
Elevation (SFT)*	1,267.018

Convergence Angle	-1	17	33.5058799
Scale Factor			1.000032326
Elevation Adjust. Factor			0.9999393982
Combined Adjust. Factor			0.9999717222

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	22	48.5562540
Longitude	94	13	17.1025464
Ellipsoid Height:			357.634
Grid Northing (Meters)			229,336.6725
Grid Easting (Meters)			200,684.9747

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	48.5409936
Longitude	94	13	17.1006240
Ellipsoid Height (M):	358.125		
Geoid Height (M):	-28.063		

Location Description

FROM THE JCT. OF HWY. 71B AND HWY. 72 IN BENTONVILLE, GO NORTH ON HWY. 71B 0.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 44 FEET WEST OF THE CENTERLINE OF HWY. 71B, 81 FEET NORTH OF NORTHWEST 7TH STREET AND 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS STAMPED "9304013A"

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	196	20.61	67.6
MK # 2	NBC IN POWER POLE	240	38.45	126.2
MK # 3	NBC IN POWER POLE	347	21.86	71.7

AZ Mark Station	040045
Geodetic Azimuth	176 38 23
Grid Azimuth	177 55 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT, BENTPORT AZ
Ref Mon # 2	V 26
Ref Mon # 3	OKMU, CNWM CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040014	5/17/1995	AHTD	BENTON	N/A	9623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	227,617.8611
Easting (M)	181,298.0440
Elevation (M)*	355.485
Northing (SFT)	746,776.2660
Easting (SFT)	594,808.6660
Elevation (SFT)*	1,166.287
Convergence Angle	-1 25 4.9736468
Scale Factor	1.000027626
Elevation Adjust. Factor	0.9999442159
Combined Adjust. Factor	0.9999718404

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 21 37.9347840
Longitude	94 26 12.9529068
Ellipsoid Height (M):	326.708
Geoid Height (M):	-28.777

Location Description

FROM THE POST OFFICE IN DECATUR, GO NORTH ON HWY. 59 FOR 3.46 KM (2.15 MILES) TO A GRAVEL ROAD (CO. RD. NO. 48) ON THE RIGHT (BETHLEHEM ROAD). TURN RIGHT AND EAST ON THE GRAVEL ROAD AND GO 0.37 KM (0.23 MILES) TO THE STATION ON THE LEFT. THE STATION IS6.0 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 1.17 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED"040014" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	3' IRON GATE POST	210	16.90	55.4
MK # 2	3' IRON GATE POST	232	23.85	78.2
MK # 3	NONE			

AZ Mark Station	040014A
Geodetic Azimuth	92 30 05.48826
Grid Azimuth	93 55 10.58801

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT 1990
Ref Mon # 2	DECAPORT 1990
Ref Mon # 3	NONE

Comments

REPORTED DESTROYED BY S5112 IN JUNE 2019. REPLACED WITH GPS #040127 BY S5512 IN JUNE 2019 FOR JOB #090558.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040014A	5/17/1995	AHTD	BENTON	N/A	9623, 090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	227,578.0732	0.0020
Easting (M)	181,870.8084	0.0020
Elevation (M)*		

Northing (SFT)	746,645.7285	
Easting (SFT)	596,687.8106	
Elevation (SFT)*		

Convergence Angle	-1	24	51.5866128
Scale Factor			1.000027571
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	21	37.1213748
Longitude	94	25	49.9504296
Ellipsoid Height:			331.294
Grid Northing (Meters)			227,578.6221
Grid Easting (Meters)			181,870.7400

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	21	37.1036268	
Longitude	94	25	49.9471428	
Ellipsoid Height (M):			332.035	0.0170
Geoid Height (M):			-28.106	0.0170

Location Description

FROM THE POST OFFICE IN DECATUR, GO NORTH ON HWY. 59 FOR 3.46 KM (2.15 MILES) TO A GRAVEL ROAD (CO. RD. NO. 48) ON THE RIGHT (BETHLEHEM ROAD), TURN RIGHT AND EAST ON THE GRAVEL ROAD AND GO 0.96 KM (0.60 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.30 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD AND 1.00 METER NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED"040014A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	264	10.80	35.4
MK # 2	POWER POLE	15	17.50	57.4
MK # 3	POWER POLE	93	8.50	27.9

AZ Mark Station	040127
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS (BENTPORT 1990)
Ref Mon # 2	ARHR (DECAPORT 1990)
Ref Mon # 3	ARRV, CTA1

Comments

PREVIOUS ELEV. WAS 360.069m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040015	5/17/1995	AHTD	BENTON	N/A	9623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	227,341.1281	
Easting (M)	186,963.3980	
Elevation (M)*	401.344	
Northing (SFT)	745,868.3511	
Easting (SFT)	613,395.7483	
Elevation (SFT)*	1,316.743	

Convergence Angle	-1	22	52.6283291
Scale Factor	1.000027331		
Elevation Adjust. Factor	0.9999370200		
Combined Adjust. Factor	0.9999643493		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	21	33.4492020
Longitude	94	22	25.5160344
Ellipsoid Height (M):	372.586		
Geoid Height (M):	-28.758		

Location Description

FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 5.18 KM (3.22 MILES) TO A CURVE LEFT AND A GRAVEL ROAD STRAIGHT AHEAD, GO STRAIGHT AHEAD ON THE GRAVEL ROAD (CO. RD. NO. 538) (REBEL ROAD) FOR 0.21 KM (0.13 MILES) TO A "T" JUNCTION, TURN RIGHT ON "REBEL ROAD" AND GO 0.42 KM (0.26 MILES) TO A "Y" JCT. WITH COUNTY ROAD NO. 535 (SHIPE ROAD), GO LEFT ON "SHIPE ROAD" FOR 1.609 KM (1.00 MILES) TO THE JCT. WITH COUNTY ROAD NO. 518 (NORTH SPRING VALLEY ROAD), CONTINUE AHEAD ON "SHIPE ROAD" FOR 1.496 KM (0.93 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.3 METERS NORTHEAST OF THE CENTER OF "SHIPE ROAD", 19.0 METERS NORTH OF THE CENTER OF A DRIVEWAY AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040015" SET ON TOP OF A 3/4 REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	335	9.90	32.5
MK # 2	TELEPHONE JUNCTION BOX	225	33.00	108.3
MK # 3	POWER POLE	75	1.20	3.9

AZ Mark Station	040015A
Geodetic Azimuth	232 32 18.62349
Grid Azimuth	233 55 11.17152

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT 1990
Ref Mon # 2	DECAPORT 1990
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040015A	5/17/1995	AHTD	BENTON	N/A	9623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	227,069.4671	
Easting (M)	186,590.5880	
Elevation (M)*	393.196	
Northing (SFT)	744,977.0766	
Easting (SFT)	612,172.6208	
Elevation (SFT)*	1,290.011	

Convergence Angle	-1	23	1.1738515
Scale Factor			1.000026735
Elevation Adjust. Factor			0.9999382985
Combined Adjust. Factor			0.9999650319

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	21	24.3468540
Longitude	94	22	40.2016080
Ellipsoid Height (M):	364.439		
Geoid Height (M):	-28.757		

Location Description

FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 5.18 KM (3.22 MILES) TO A CURVE LEFT AND A GRAVEL ROAD STRAIGHT AHEAD, GO STRAIGHT AHEAD ON THE GRAVEL ROAD (CO. RD. NO. 538) (REBEL ROAD) FOR 0.21 KM (0.13 MILES) TO A "T" JUNCTION, TURN RIGHT ON "REBEL ROAD" AND GO 0.42 KM (0.26 MILES) TO A "Y" JCT. WITH COUNTY ROAD NO. 535 (SHIPE ROAD), GO LEFT ON "SHIPE ROAD" FOR 1.609 KM (1.00 MILES) TO THE JCT. WITH COUNTY ROAD NO. 518 (NORTH SPRING VALLEY ROAD), CONTINUE AHEAD ON "SHIPE ROAD" FOR 2.22 KM (1.38 MILES) TO THE STATION ON THE LEFT. THE STATION IS 4.30 METERS SOUTH OF THE CENTER OF "SHIPE ROAD" AND 1.03 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040015A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	R/R CROSS TIE FENCE POST	290	12.10	39.7
MK # 2	R/R CROSS TIE FENCE POST	325	10.70	35.1
MK # 3	R/R CROSS TIE FENCE POST	0	14.10	46.3

AZ Mark Station	040015
Geodetic Azimuth	52 32 09.917443
Grid Azimuth	53 55 11.171516

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT 1990
Ref Mon # 2	DECAPORT 1990
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040016	5/17/1995	AHTD	BENTON	102	090174,9623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	227,282.7330
Easting (M)	190,396.4870
Elevation (M)*	
Northing (SFT)	745,676.7665
Easting (SFT)	624,659.1411
Elevation (SFT)*	
Convergence Angle	-1 21 32.4923015
Scale Factor	1.000027382
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	21	34.2184500
Longitude	94	20	7.8013968
Ellipsoid Height (M):	393.060		
Geoid Height (M):	-28.007		

Location Description

FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 4.58 KM (2.85 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 13.4 METERS NORTH OF THE CENTERLINE OF HWY. 102 AND 0.70 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "040016" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	36	21	34.2349632
Longitude	94	20	7.8038376
Ellipsoid Height:	392.171		
Grid Northing (Meters)	227,283.2433		
Grid Easting (Meters)	190,396.4382		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	270	10.20	33.5
MK # 2	8" WOODEN FENCE CORNER POST	305	1.35	4.4
MK # 3	NONE			

AZ Mark Station	040016A
Geodetic Azimuth	93 49 05
Grid Azimuth	95 10 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT,BENTPORTAZ
Ref Mon # 2	V26
Ref Mon # 3	OKMU

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040016A	5/17/1995	AHTD	BENTON	102	090174,9623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	227,227.6881
Easting (M)	191,004.0070
Elevation (M)*	
Northing (SFT)	745,496.1734
Easting (SFT)	626,652.3130
Elevation (SFT)*	
Convergence Angle	-1 21 18.2866933
Scale Factor	1.000027295
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	21	32.8999680
Longitude	94	19	43.3889040
Ellipsoid Height (M):	382.691		
Geoid Height (M):	-28.008		

Location Description

FROM THE JCT. OF HWY. 102 AND MAIN STREET IN THE SMALL TOWN OF CENTERTON, GO WEST ON HWY. 102 FOR 3.99 KM (2.48 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.5 METERS SOUTH OF THE CENTER OF HWY. 102, 19.5 METERS WEST OF A DRIVEWAY AND 0.50METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD2 1/2" ALUMINUM CAP STAMPED "040016A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	36	21	32.9158080
Longitude	94	19	43.3911180
Ellipsoid Height:	381.813		
Grid Northing (Meters)	227,228.1775		
Grid Easting (Meters)	191,003.9634		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	93	11.45	37.6
MK # 2	4" WOODEN FENCE POST	135	0.80	2.6
MK # 3	NONE			

AZ Mark Station	040016
Geodetic Azimuth	273 49 20
Grid Azimuth	275 10 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT,BENTPORTAZ
Ref Mon # 2	V26
Ref Mon # 3	OKMU

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040017A	7/23/1996	AHTD	BENTON	59	090196, 001742, 090506

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	200,661.6200
Easting (M)	172,080.6090
Elevation (M)*	327.987
Northing (SFT)	658,337.3316
Easting (SFT)	564,567.7980
Elevation (SFT)*	1,076.071

Convergence Angle	-1	28	23.8591992
Scale Factor			0.999978847
Elevation Adjust. Factor			0.9999485308
Combined Adjust. Factor			0.9999273789

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	6	56.1393864
Longitude	94	31	54.7438872
Ellipsoid Height:			298.965
Grid Northing (Meters)			200,662.0556
Grid Easting (Meters)			172,080.5204

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	56.1253320
Longitude	94	31	54.7398984
Ellipsoid Height (M):	299.675		
Geoid Height (M):	-28.292		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 7.32 KM. (4.55 MI.) TO THE STATION ON THE LEFT ON TOP OF A HIGH BANK NEAR A POWER TRANSMISSION LINE. 14.36 METERS EAST OF THE CENTER OF HWY-59 AND 1.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040017A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	165	18.69	61.3
MK # 2	0.70 METER PINE TREE	250	23.80	78.1
MK # 3	POWER POLE	25	27.96	91.7

AZ Mark Station	040058
Geodetic Azimuth	198 18 40
Grid Azimuth	199 47 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL1
Ref Mon # 2	NDS1
Ref Mon # 3	040038

Comments

3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040018	9/3/1997	AHTD	BENTON	I-540	090180,012069,9985,012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	221,975.7130	
Easting (M)	203,783.6220	
Elevation (M)*	374.814	
Northing (SFT)	728,265.3184	
Easting (SFT)	668,580.0998	
Elevation (SFT)*	1,229.703	

Convergence Angle	-1	16	17.3720550
Scale Factor	1.000017049		
Elevation Adjust. Factor	0.9999411829		
Combined Adjust. Factor	0.9999582309		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	36	18	52.0780104
Longitude	94	11	6.2667348
Ellipsoid Height:	346.247		
Grid Northing (Meters)	221,976.1787		
Grid Easting (Meters)	203,783.5595		

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	18	52.0629516	
Longitude	94	11	6.2638152	
Ellipsoid Height (M):	346.875			
Geoid Height (M):	-28.043			

Location Description

THE STATION IS LOCATED ABOUT 3.22 KM (2.00 MI) WEST OF ROGERS ATì THE JUNCTION OF STATE HIGHWAY 94 AND U.S. HIGHWAY 71 SET IN THE ìMEDIAN. THE STATION IS 25.20 METERS SOUTH-SOUTHEAST OF THE ìCENTER OF STATE HIGHWAY 94, 17.38 METERS EAST-NORTHEAST OF THE ìCENTER OF U.S. HIGHWAY 71 SOUTH BOUND LANE, 7.90 METERS ìWEST-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 71 NORTH BOUND LANE,ì 2.70 METERS SOUTH OF THE SOUTHWEST CORNER OF A BRIDGE IN THE ìNORTH BOUND LANE AND 1.92 METERS WEST-SOUTHWEST OF A WITNESS ìPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 040018 ì1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSHì WITH THE GROUNG.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF GUARD RAIL	17	3.05	10.0
MK # 2	PUNCH IN TOP OF GUARD RAIL	148	6.89	22.6
MK # 3	"X" IN SOUTHEAST CORNER OF BRIDGE	270	11.33	37.2

AZ Mark Station	040046
Geodetic Azimuth	185 26 51
Grid Azimuth	186 43 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT, BENTPORTAZ
Ref Mon # 2	OKMU, CNWM
Ref Mon # 3	V 26

Comments

Digital Levels were ran by crew S5101 in Dec. 09 from AHTD BM 920 in Job 012111. BM 920 was est. from NGS mark J 26. The crew hammered the pt. down 2 tenths to prevent mower disturbance. The previous elev. was 1229.8975.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040020	7/6/1998	AHTD	BENTON	12	090057

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	222,147.3680	
Easting (M)	196,572.7940	
Elevation (M)*	377.292	
Northing (SFT)	728,828.4898	
Easting (SFT)	644,922.5750	
Elevation (SFT)*	1,237.832	

Convergence Angle	-1	19	5.6213976
Scale Factor			1.000017066
Elevation Adjust. Factor			0.9999407941
Combined Adjust. Factor			0.9999578591

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	18	52.3440108	
Longitude	94	15	55.4021460	
Ellipsoid Height (M):	349.256			
Geoid Height (M):	-28.036			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 12 ON THE SOUTH SIDE OF BENTONVILLE GO WEST ON STATE HIGHWAY 12 FOR 7.08 KM. (4.4 MI.) TO THE STATION ON LEFT. 10.39 METERS SOUTH OF THE CENTER OF HWY-12, 1.30 METERS NORTH OF A BARBWIRE FENCE AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040020 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	2	22.53	73.9
MK # 2	WOODEN CORNER POST	266	34.48	113.1
MK # 3				

AZ Mark Station	040020A
Geodetic Azimuth	273 40 26.92324
Grid Azimuth	274 59 32.45448

Area Reference Monuments (used for Processing)

Ref Mon # 1	FLINT
Ref Mon # 2	CASSPORT
Ref Mon # 3	V 26

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040020A	7/6/1998	AHTD	BENTON	12	090057

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	222,185.3740
Easting (M)	196,137.7160
Elevation (M)*	375.253
Northing (SFT)	728,953.1812
Easting (SFT)	643,495.1566
Elevation (SFT)*	1,231.143
Convergence Angle	-1 19 15.7878964
Scale Factor	1.000017122
Elevation Adjust. Factor	0.9999411140
Combined Adjust. Factor	0.9999582350

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 18 53.2516140
Longitude	94 16 12.8733852
Ellipsoid Height (M):	347.218
Geoid Height (M):	-28.035

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 12 ON THE SOUTH SIDE OF BENTONVILLE GO WEST ON STATE HIGHWAY 12 FOR 7.48 KM. (4.65 MI.) TO THE STATION ON THE RIGHT. 10.65 METERS NORTH OF THE CENTER OF HWY-12, 0.85 METERS SOUTH OF A WITNESS POST SET NEAR A BARBWIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040020A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	272	26.75	87.8
MK # 2				
MK # 3				

AZ Mark Station	040020
Geodetic Azimuth	93 40 16.57641
Grid Azimuth	94 59 32.45448

Area Reference Monuments (used for Processing)

Ref Mon # 1	FLINT
Ref Mon # 2	CASSPORT
Ref Mon # 3	V 26

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040022	12/1/1998	AHTD	BENTON	412	090024,090137

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,494.8180	
Easting (M)	169,737.9780	
Elevation (M)*	355.195	
Northing (SFT)	680,755.9154	
Easting (SFT)	556,882.0162	
Elevation (SFT)*	1,165.336	

Convergence Angle	-1	29	22.4827206
Scale Factor	0.999989282		
Elevation Adjust. Factor	0.9999442614		
Combined Adjust. Factor	0.9999335440		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	35.7835368
Longitude	94	33	35.4850596
Ellipsoid Height (M):	326.790		
Geoid Height (M):	-28.284		

Location Description

TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 0.47 KM (0.29 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412, 10.0 METERS WEST OF THE CENTER OF A PAVED ENTRANCE TO AN ABANDON GAS STATION AND 0.50 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040022 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CMP	118	5.00	16.4
MK # 2	FIRE HYDRANT	270	18.55	60.9
MK # 3	GUY POLE	336	20.30	66.6

AZ Mark Station	OK 1
Geodetic Azimuth	263 22 05.67178
Grid Azimuth	264 51 28.06079

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	FLINT
Ref Mon # 3	V 26

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040022A	11/5/2002	AHTD	BENTON	412	090137,090137

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	207,466.9200
Easting (M)	169,330.5230
Elevation (M)*	
Northing (SFT)	680,664.3867
Easting (SFT)	555,545.2242
Elevation (SFT)*	
Convergence Angle	-1 29 31.9505788
Scale Factor	0.999989219
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 34.5347832
Longitude	94 33 51.7556772
Ellipsoid Height (M):	323.958
Geoid Height (M):	-28.290

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE ARKANSASAND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 0.04 MILES TO THE STATION ON THE RIGHT. THE STATION IS 6.75 METERS SOUTH OF THE SOUTH EDGE OF THE EAST BOUND LANES OF U.S. HIGHWAY 412, 2.36 METERS NORTH OF THE BACK OF A CONCRETE CURB, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040022A 2002"SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	76	8.66	28.4
MK # 2	MAN HOLE COVER	85	10.15	33.3
MK # 3	LIGHT POLE	270	10.90	35.8

AZ Mark Station	040022
Geodetic Azimuth	84 35 27
Grid Azimuth	86 04 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040023	4/12/1999	AHTD	BENTON	62	090064,090065,012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	232,395.9501	
Easting (M)	214,267.9240	
Elevation (M)*	408.524	
Northing (SFT)	762,452.3796	
Easting (SFT)	702,977.3473	
Elevation (SFT)*	1,340.300	

Convergence Angle	-1	12	17.9779719
Scale Factor	1.000039802		
Elevation Adjust. Factor	0.9999358934		
Combined Adjust. Factor	0.9999756928		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	36	24	37.3825872
Longitude	94	4	14.8624716
Ellipsoid Height (M):	380.407		
Geoid Height (M):	-28.113		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF RODGERS GO NORTHEAST ON U.S. HIGHWAY 62 FOR 7.56 KM (4.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.75 METERS EAST OF THE CENTER OF ANDY JACK ROAD, 14.49 METERS WEST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS EAST OF A WINTESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040023 1999" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NGS BENCH MARK P 309	233	37.01	121.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	040023A
Geodetic Azimuth	186 43 14.21095
Grid Azimuth	187 55 32.17297

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040023A	4/12/1999	AHTD	BENTON	62	090064,090065,012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	231,817.8521	
Easting (M)	214,187.4430	
Elevation (M)*	415.279	
Northing (SFT)	760,555.7364	
Easting (SFT)	702,713.3026	
Elevation (SFT)*	1,362.461	

Convergence Angle	-1	12	19.5731147
Scale Factor	1.000038490		
Elevation Adjust. Factor	0.9999348335		
Combined Adjust. Factor	0.9999733210		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	36	24	18.5777820
Longitude	94	4	17.6037420
Ellipsoid Height (M):	387.297		
Geoid Height (M):	-28.110		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF ROGERS, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 7.00 KM (4.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.81 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62 AND 1.13 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040023A 1999" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	56	1.30	4.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	040023
Geodetic Azimuth	6 43 12.583926
Grid Azimuth	7 55 32.172968

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040024A	9/28/1999	AHTD	BENTON	62	090065

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	234,847.3041	
Easting (M)	216,713.1390	
Elevation (M)*	423.382	
Northing (SFT)	770,494.8635	
Easting (SFT)	710,999.6902	
Elevation (SFT)*	1,389.047	

Convergence Angle	-1	11	22.0722143
Scale Factor	1.000045559		
Elevation Adjust. Factor	0.9999335619		
Combined Adjust. Factor	0.9999791179		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	58.5463800
Longitude	94	2	38.7878172
Ellipsoid Height (M):	395.254		
Geoid Height (M):	-28.129		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 72, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF AVOCA, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.67 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040024A 1999" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 484.310 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W SIGN	227	6.95	22.8
MK # 2	PG	99	29.51	96.8
MK # 3	NONE			

AZ Mark Station	040024
Geodetic Azimuth	48 16 29.098081
Grid Azimuth	49 27 51.257341

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS ARP
Ref Mon # 2	SALLISAW 1 CORS ARP
Ref Mon # 3	NEODESHA CORS ARP

Comments

Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040025	9/28/1999	AHTD	BENTON	62	090065,090096

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	236,043.9541	
Easting (M)	221,545.3380	
Elevation (M)*	478.305	
Northing (SFT)	774,420.8727	
Easting (SFT)	726,853.3298	
Elevation (SFT)*	1,569.239	

Convergence Angle	-1	9	29.7753546
Scale Factor	1.000048601		
Elevation Adjust. Factor	0.9999249440		
Combined Adjust. Factor	0.9999735413		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	40.5695976
Longitude	93	59	25.8044388
Ellipsoid Height (M):	450.145		
Geoid Height (M):	-28.136		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127, LOCATED IN GARFIELD, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 1.93 KM (1.20 MI) TO THE GARFIELD POST OFFICE AND THE STATION ON THE RIGHT. THE STATION IS 23.06 METERS EAST OF THE CENTER OF ALVIN SEAMSTER ROAD, 18.94 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040025 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM BENCH MARK V 309. THE SHOT DISTANCE IS 583.531METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKER	119	9.94	32.6
MK # 2	FLAG POLE	58	21.98	72.1
MK # 3	NORTHEAST END OF CMP	265	17.30	56.8

AZ Mark Station	040025A
Geodetic Azimuth	295 19 58.21240
Grid Azimuth	296 29 27.85903

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS ARP
Ref Mon # 2	SALLISAW 1 CORS ARP
Ref Mon # 3	NEODESHA CORS ARP

Comments

Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040025A	9/28/1999	AHTD	BENTON	62	090065,090096

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	236,304.2381	
Easting (M)	221,023.0840	
Elevation (M)*	462.897	
Northing (SFT)	775,274.8212	
Easting (SFT)	725,139.9014	
Elevation (SFT)*	1,518.689	

Convergence Angle	-1	9	42.0983079
Scale Factor	1.000049192		
Elevation Adjust. Factor	0.9999273616		
Combined Adjust. Factor	0.9999765500		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	48.6686076
Longitude	93	59	46.9815684
Ellipsoid Height (M):	434.760		
Geoid Height (M):	-28.137		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127, LOCATED IN GARFIELD, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 2.49 KM (1.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.27 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 4.35 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE AND 0.76 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040025A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.531 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKER	183	0.58	1.9
MK # 2	TELEPHONE JUNCTION MARK	272	33.15	108.8
MK # 3	WEST GATE POST	230	8.90	29.2

AZ Mark Station	040025
Geodetic Azimuth	115 19 45.63189
Grid Azimuth	116 29 27.85903

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS ARP
Ref Mon # 2	SALLISAW 1 CORS ARP
Ref Mon # 3	NEODESHA CORS ARP

Comments

Digital Levels ran by Crew S5101 in Feb 2009 from 1st order NGS marks V309,W309,X309,Y309,U309,T309,S309,R309 & Q309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040026A	1/22/2001	AHTD	BENTON	71	009969,090298

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	233,392.5831	
Easting (M)	200,728.0564	
Elevation (M)*	317.176	0.0044
Northing (SFT)	765,722.1664	
Easting (SFT)	658,555.2984	
Elevation (SFT)*	1,040.603	

Convergence Angle	-1	17	34.6380534
Scale Factor	1.000041400		
Elevation Adjust. Factor	0.9999502272		
Combined Adjust. Factor	0.9999916251		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	0.1323192
Longitude	94	13	19.0462764
Ellipsoid Height (M):	289.175		
Geoid Height (M):	-28.092		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71B AND STATE HIGHEWAY 340, LOCATED IN BELLA VISTA, GO SOUTH ON U.S. HIGHWAY 71 FOR 7.24 KM (4.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.10 METERS EAST OF THE CENTER OF THE NORTH BOUND LANE OF U.S. HIGHWAY 71B AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 040026A SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 598.961 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	040026
Geodetic Azimuth	351 55 45.72116
Grid Azimuth	353 13 20.33933

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040027	1/22/2001	AHTD	BENTON	CR 39	009969.090298

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	233,428.7775	
Easting (M)	196,943.7890	
Elevation (M)*	404.819	
Northing (SFT)	765,840.9142	
Easting (SFT)	646,139.7477	
Elevation (SFT)*	1,328.145	

Convergence Angle	-1	19	3.0203790
Scale Factor			1.000041285
Elevation Adjust. Factor			0.9999364747
Combined Adjust. Factor			0.9999777570

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	58.5097848
Longitude	94	15	50.9322672
Ellipsoid Height (M):	376.885		
Geoid Height (M):	-28.072		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 5.71 KM (3.55 MI) TO THE JUNCTION OF SHORT ROAD (OLD COUNTY ROAD 452) ON THE LEFT GO LEFT, EAST ON SHORT ROAD FOR 3.07 KM (1.91 MI) TO THE JUNCTION OF PUNKIN HOLLOW ROAD (OLD COUNTY ROAD 39) ON THE LEFT, GO LEFT NORTH ON PUNKIN HOLLOW ROAD FOR 0.94 KM (0.59 MI) TO THE MILLER COMMUNITY CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 11.00 METERS SOUTH-SOUTHEAST OF THE CENTER OF MILLER CHURCH ROAD, 9.15 METERS NORTH-NORTHEAST OF THE CENTER OF PUNKIN HOLLOW ROAD AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040027 2001" SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	283	14.40	47.2
MK # 2	TELEPHONE JUNCTION BOX	253	18.80	61.7
MK # 3	BASE OF AN OLD HAND PUMP	85	6.15	20.2

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040028	1/22/2001	AHTD	BENTON	N/A	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	232,527.7112	
Easting (M)	195,673.6084	
Elevation (M)*	414.033	
Northing (SFT)	762,884.6658	
Easting (SFT)	641,972.4969	
Elevation (SFT)*	1,358.373	

Convergence Angle	-1	19	32.1920444
Scale Factor	1.000039169		
Elevation Adjust. Factor	0.9999350290		
Combined Adjust. Factor	0.9999741954		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	28.3358340
Longitude	94	16	41.0640924
Ellipsoid Height (M):	386.114		
Geoid Height (M):	-28.058		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 5.23 KM (3.25 MI) TO THE JUNCTION OF LITTLE ROAD (OLD COUNTY ROAD 457) ON THE LEFT, GO LEFT NORTHEAST ON LITTLE ROAD FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF MILLER CHURCH ROAD (OLD COUNTY ROAD 49) ON THE RIGHT, GO RIGHT NORTHEAST ON MILLER CHURCH ROAD FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.40 METERS SOUTH OF THE CENTER OF MILLER CHURCH ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040028 2001" SET ON TOP OF AN IRON ROD 0.75 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040029	1/22/2001	AHTD	BENTON	72	009969,090298

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	233,762.3220	
Easting (M)	192,569.4878	
Elevation (M)*	414.549	0.0008
Northing (SFT)	766,935.2181	
Easting (SFT)	631,788.3946	
Elevation (SFT)*	1,360.065	

Convergence Angle	-1	20	45.3418224
Scale Factor	1.000041816		
Elevation Adjust. Factor	0.9999349480		
Combined Adjust. Factor	0.9999767613		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	6.0293136
Longitude	94	18	46.7727840
Ellipsoid Height (M):	386.637		
Geoid Height (M):	-28.053		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 1.90 KM (1.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.60 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 10.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 72 AND 1.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040029 2001" SET ON TOP OF AN IRON 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.535 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	257	9.90	32.5
MK # 2	WOODEN GATE POST	90	23.80	78.1
MK # 3	NONE			

AZ Mark Station	040029A
Geodetic Azimuth	91 05 38.281797
Grid Azimuth	92 26 23.744500

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040029A	1/22/2001	AHTD	BENTON	72	009969,090298

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	233,740.5451	
Easting (M)	193,080.5582	
Elevation (M)*	408.623	
Northing (SFT)	766,863.7717	
Easting (SFT)	633,465.1314	
Elevation (SFT)*	1,340.623	

Convergence Angle	-1	20	33.3962540
Scale Factor	1.000041793		
Elevation Adjust. Factor	0.9999358779		
Combined Adjust. Factor	0.9999776682		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	5.7119988
Longitude	94	18	26.2441944
Ellipsoid Height (M):	380.691		
Geoid Height (M):	-28.055		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 2.41 KM (1.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 28.00 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 10.85 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 72 AND 1.65 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040029A 2001" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.535 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CMP	311	8.50	27.9
MK # 2	WOODEN CORNER POST	203	1.80	5.9
MK # 3	WOODEN BRACE POST	252	2.90	9.5

AZ Mark Station	040029
Geodetic Azimuth	271 05 50.46912
Grid Azimuth	272 26 23.74450

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040030	1/22/2001	AHTD	BENTON	72	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	235,198.9411	
Easting (M)	186,970.3177	
Elevation (M)*	402.477	
Northing (SFT)	771,648.5259	
Easting (SFT)	613,418.4507	
Elevation (SFT)*	1,320.461	

Convergence Angle	-1	22	56.8915588
Scale Factor	1.000044823		
Elevation Adjust. Factor	0.9999368422		
Combined Adjust. Factor	0.9999816623		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	48.2966220
Longitude	94	22	32.8424412
Ellipsoid Height (M):	374.565		
Geoid Height (M):	-28.072		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE HIGHWAY 72 FOR 4.50 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 72, 9.85 METERS NORTHEAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.88 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040030 2001" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 502.558 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	261	4.95	16.2
MK # 2	MOST EASTERLY BRACE POST	31	1.96	6.4
MK # 3	NORTHEAST END CMP	222	5.90	19.4

AZ Mark Station	N 34 RESET 1987
Geodetic Azimuth	237 24 24.96790
Grid Azimuth	238 47 21.75806

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040031	1/22/2001	AHTD	BENTON	CR 21	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	239,159.1527	
Easting (M)	187,316.9709	
Elevation (M)*	394.183	
Northing (SFT)	784,641.3201	
Easting (SFT)	614,555.7620	
Elevation (SFT)*	1,293.249	

Convergence Angle	-1	22	51.0253578
Scale Factor	1.000054241		
Elevation Adjust. Factor	0.9999381436		
Combined Adjust. Factor	0.9999923813		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	27	57.0011796
Longitude	94	22	22.7613108
Ellipsoid Height (M):	366.200		
Geoid Height (M):	-28.137		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO RIGHT NORTH ON HIWASSE ROAD FOR 1.45 KM (0.90 MI) TO THE JUNCTION OF HIGHLAND BOULEVARD (OLD COUNTY ROAD 472) GO LEFT, WEST ON HIGHLAND BOULEVARD FOR 4.59 KM (2.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.30 METERS WEST OF THE CENTER OF HIGHLAND BOULEVARD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040031 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 554.155 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	040031
Geodetic Azimuth	175 10 14.83646
Grid Azimuth	176 33 05.87345

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040031A	1/22/2001	AHTD	BENTON	CR 21	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	238,605.9950
Easting (M)	187,350.3032
Elevation (M)*	388.853
Northing (SFT)	782,826.5019
Easting (SFT)	614,665.1197
Elevation (SFT)*	1,275.761

Convergence Angle	-1	22	49.9351251
Scale Factor			1.000052907
Elevation Adjust. Factor			0.9999389801
Combined Adjust. Factor			0.9999918838

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	27	39.0879180	
Longitude	94	22	20.8877340	
Ellipsoid Height (M):	360.879			
Geoid Height (M):	-28.127			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO RIGHT NORTH ON HIWASSE ROAD FOR 1.45 KM (0.90 MI) TO THE JUNCTION OF HIGHLAND BOULEVARD (OLD COUNTY ROAD 472), GO LEFT WEST ON HIGHLAND BOULEVARD FOR 4.34 KM (2.70 MI) TO THE JUNCTION OF A PAVED ROAD ON THE LEFT. GO LEFT, WEST ON THE PAVED ROAD FOR 0.04 KM (0.03 MI) TO A PAVED ROAD ON THE LEFT, GO LEFT SOUTH ON THE PAVED ROAD FOR 0.35 KM (0.22 MI) TO THE STATION SET IN THE MIDDLED OF THE ROAD. THE STATION IS 4.08 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "040031A 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND 0.02 METERS BELOW THE PAVEMENT. THE SHOT DISTANCE IS 554.155 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	153	12.00	39.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	040031
Geodetic Azimuth	355 10 15.94994
Grid Azimuth	356 33 05.87345

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040032	1/22/2001	AHTD	BENTON	N/A	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	242,561.4875	
Easting (M)	187,603.0654	
Elevation (M)*	380.047	
Northing (SFT)	795,803.8136	
Easting (SFT)	615,494.3904	
Elevation (SFT)*	1,246.871	

Convergence Angle	-1	22	46.2553766
Scale Factor			1.000062644
Elevation Adjust. Factor			0.9999403618
Combined Adjust. Factor			1.0000030021

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	47.5641204
Longitude	94	22	14.5640460
Ellipsoid Height (M):	352.003		
Geoid Height (M):	-28.208		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF GLASGOW ROAD (OLD COUNTY ROAD 472) AND EDINBURGH ROAD, LOCATED ON THE NORTHWEST SIDE OF BELLA VISTA, GO WEST ON EDINBURGH ROAD FOR 2.35 KM (1.40 MI) TO THE END OF PAVEMENT, COUNTINE WEST ON EDINBURGH ROAD FOR 0.72 KM (0.45 MI) TO THE JUNCTION OF A PIPE LINE AND THE STATION ON THE LEFT. THE STATION IS 6.15 METERS SOUTH OF THE CENTER OF EDINBURGH ROAD, 3.00 METERS EAST OF THE CENTER OF A FOUR WHEELER TRAIL AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040032 2001" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040034	11/4/2002	AHTD	BENTON	264	090147,090268

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	208,926.0170	
Easting (M)	172,649.0610	
Elevation (M)*	349.657	
Northing (SFT)	685,451.4408	
Easting (SFT)	566,432.7943	
Elevation (SFT)*	1,147.165	

Convergence Angle	-1	28	15.5731453
Scale Factor	0.999991757		
Elevation Adjust. Factor	0.9999451305		
Combined Adjust. Factor	0.9999368879		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	11	24.6413076
Longitude	94	31	40.5002244
Ellipsoid Height (M):	321.416		
Geoid Height (M):	-28.240		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 43 AND STATE HIGHWAY 264. LOCATED IN THE NORTHEAST CORNER OF SILOAM SPRINGS, GO SOUTH ON STATE HIGHWAY 264 FOR 0.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS WEST OF THE CENTER LINE OF STATE HIGHWAY 264 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040034 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH K 31 PID # GG0210, BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	163	12.90	42.3
MK # 2				
MK # 3				

AZ Mark Station	SILOAM
Geodetic Azimuth	26 34 13
Grid Azimuth	28 02 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

Digital Levels ran by crew S5110 from 2nd order NGS mark "K 31" in November 2009.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040035	11/5/2002	AHTD	BENTON	412	090024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	207,513.4960
Easting (M)	179,129.2310
Elevation (M)*	
Northing (SFT)	680,817.1948
Easting (SFT)	587,693.1520
Elevation (SFT)*	
Convergence Angle	-1 25 43.8769187
Scale Factor	0.999989702
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 10 44.1483204
Longitude	94 27 19.8086040
Ellipsoid Height (M):	306.604
Geoid Height (M):	-28.172

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO EAST ON U.S.HIGHWAY 412 FOR 2.37 MILES TO THE STATION ON THE LEFT. THE STATION IS 22.50 METERS WEST OF THE CENTER LINE OF THE CROSSOVER BETWEEN DIVIDED 412 LANES, 12.65 METERS NORTH OF THE CENTERLINE OF 412 EAST BOUND LANES AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040035 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	DROP INLET	298	17.00	55.8
MK # 2	RCP UNDER CROSSOVER LANE BETWEEN 412 LANES	98	10.80	35.4
MK # 3				

AZ Mark Station	350035A
Geodetic Azimuth	116 22 01
Grid Azimuth	117 47 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040035A	11/5/2002	AHTD	BENTON	412	090024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	207,177.6530
Easting (M)	179,766.3270
Elevation (M)*	
Northing (SFT)	679,715.3499
Easting (SFT)	589,783.3578
Elevation (SFT)*	

Convergence Angle	-1	25	28.8512195
Scale Factor			0.999989181
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	33.7703376
Longitude	94	26	53.9867760
Ellipsoid Height (M):	277.776		
Geoid Height (M):	-28.165		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO EAST ON U.S. HIGHWAY 412 FOR 2.80 MILES TO THE STATION ON THE LEFT. THE STATION IS 28.00 METERS EAST OF THE CENTER OF CROSSOVER LANE BETWEEN DIVIDED 412, 9.60 METERS NORTH OFF CENTER OF EAST BOUND 412 LANES AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 040035A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	040035
Geodetic Azimuth	296 22 16
Grid Azimuth	297 47 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040036	11/5/2002	AHTD	BENTON	59	090148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,135.6800	
Easting (M)	175,664.7940	
Elevation (M)*	365.868	
Northing (SFT)	695,981.8101	
Easting (SFT)	576,326.9116	
Elevation (SFT)*	1,200.351	

Convergence Angle	-1	27	7.2536505
Scale Factor	0.999997354		
Elevation Adjust. Factor	0.9999425867		
Combined Adjust. Factor	0.9999399409		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	11.2355328
Longitude	94	29	43.0924272
Ellipsoid Height (M):	337.645		
Geoid Height (M):	-28.183		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 2.69 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 59 AND 0.64 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040036 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	040036A
Geodetic Azimuth	181 19 54
Grid Azimuth	182 47 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

ELEVATION BY 3 WIRE LOOP FROM NGS POINT K 31 BY S5101

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040036A	11/5/2002	AHTD	BENTON	59	090148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,491.1830	
Easting (M)	175,633.4550	
Elevation (M)*	359.794	
Northing (SFT)	693,867.3229	
Easting (SFT)	576,224.0936	
Elevation (SFT)*	1,180.424	

Convergence Angle	-1	27	7.6030483
Scale Factor			0.999996234
Elevation Adjust. Factor			0.9999435398
Combined Adjust. Factor			0.9999397740

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	50.3068464
Longitude	94	29	43.6928712
Ellipsoid Height (M):	331.566		
Geoid Height (M):	-28.187		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 2.29 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 59, 5.60 METERS NORTH OF A FIELD ENTRANCE, AND 0.46 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040036A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF CORRIGATED METAL PIPE	223	3.10	10.2
MK # 2	NORTHERN MOST GATE POST	163	3.10	10.2
MK # 3				

AZ Mark Station	040036
Geodetic Azimuth	1 19 54
Grid Azimuth	2 47 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

ELEVATION BY 3 WIRE LOOP FROM NGS POINT K 31 BY S5101

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040037	11/5/2002	AHTD	BENTON	59B	090148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	216,769.7710
Easting (M)	176,709.8520
Elevation (M)*	
Northing (SFT)	711,185.4904
Easting (SFT)	579,755.5728
Elevation (SFT)*	
Convergence Angle	-1 26 45.6375903
Scale Factor	1.000005750
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 15 42.3889164
Longitude	94 29 5.9449920
Ellipsoid Height (M):	342.790
Geoid Height (M):	-28.141

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 5.90 MILES TO THE JUNCTION OF STATE HIGHWAY 59 AND 59B ON THE SOUTH EDGE OF GENTRY. TURN LEFT (NORTH) ON STATE HIGHWAY 59B AND CONTINUE ON FOR 0.16 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.90 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 7.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 59B AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040037 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAN HOLE COVER	340	3.33	10.9
MK # 2	FIRE HYDRANTANT	262	38.40	126.0
MK # 3	WATER VALVE	163	4.73	15.5

AZ Mark Station	040037A
Geodetic Azimuth	183 46 06
Grid Azimuth	185 12 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040037A	11/5/2002	AHTD	BENTON	59	090148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	216,346.0070
Easting (M)	176,671.1800
Elevation (M)*	
Northing (SFT)	709,795.1913
Easting (SFT)	579,628.6964
Elevation (SFT)*	
Convergence Angle	-1 26 46.2894700
Scale Factor	1.000004962
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 15 28.6135272
Longitude	94 29 7.0652544
Ellipsoid Height (M):	342.496
Geoid Height (M):	-28.144

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 NORTH LOCATED ON THE EAST SIDE OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 59 FOR 5.80 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.30 METERS SOUTH OF A GRAVEL DRIVE, 9.40 METERS WEST OF THE CENTER OF STATE HIGHWAY 59, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040037A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	348	7.65	25.1
MK # 2	COMBINATION POLE	354	17.25	56.6
MK # 3	POWER POLE	249	16.10	52.8

AZ Mark Station	040037
Geodetic Azimuth	3 46 05
Grid Azimuth	5 12 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040038	11/5/2002	AHTD	BENTON	59	090196,090024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	203,497.4079	
Easting (M)	172,571.3980	
Elevation (M)*	354.250	
Northing (SFT)	667,641.0791	
Easting (SFT)	566,177.9949	
Elevation (SFT)*	1,162.234	

Convergence Angle	-1	28	14.1365795
Scale Factor	0.999983097		
Elevation Adjust. Factor	0.9999444098		
Combined Adjust. Factor	0.9999275077		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	28.5092628
Longitude	94	31	38.0314704
Ellipsoid Height (M):	325.942		
Geoid Height (M):	-28.272		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 SOUTH LOCATED IN SILOAM SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 2.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 59 AND 1.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040038 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	305	2.05	6.7
MK # 2	WOOD FENCE POST	260	2.65	8.7
MK # 3	WOOD FENCE POST	296	4.00	13.1

AZ Mark Station	040038A
Geodetic Azimuth	227 02 16
Grid Azimuth	228 30 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL1
Ref Mon # 2	NDS1
Ref Mon # 3	040038

Comments

3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040038A	11/5/2002	AHTD	BENTON	59	090196,090024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	203,124.3629	
Easting (M)	172,149.6240	
Elevation (M)*	353.630	
Northing (SFT)	666,417.1806	
Easting (SFT)	564,794.2247	
Elevation (SFT)*	1,160.199	

Convergence Angle	-1	28	23.7271721
Scale Factor	0.999982512		
Elevation Adjust. Factor	0.9999445071		
Combined Adjust. Factor	0.9999270201		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	16.0585980
Longitude	94	31	54.5130084
Ellipsoid Height (M):	325.308		
Geoid Height (M):	-28.279		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 59 SOUTH LOCATED IN SILOAM SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 2.68 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.75 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 10.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 59, AND 1.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040038A 2002" SET ON TOP OF AN IRON 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORRIGATED METAL PIPE	45	9.70	31.8
MK # 2	TELEPHONE JUNCTION BAX	24	10.80	35.4
MK # 3				

AZ Mark Station	040038
Geodetic Azimuth	47 02 06
Grid Azimuth	48 30 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL1
Ref Mon # 2	NDS1
Ref Mon # 3	040038

Comments

3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040039	11/5/2002	AHTD	BENTON	43	090147,090268

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	211,299.0439
Easting (M)	170,169.9070
Elevation (M)*	
Northing (SFT)	693,236.9465
Easting (SFT)	558,299.1032
Elevation (SFT)*	

Convergence Angle	-1	29	14.7276681
Scale Factor			0.999995661
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	12	39.5287272
Longitude	94	33	22.1579172
Ellipsoid Height (M):	308.808		
Geoid Height (M):	-28.263		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 43 AND STATE HIGHWAY 264 LOCATED IN THE NORTHEAST PART OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 43 FOR 2.76 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 43 AND 1.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040039 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	040039A
Geodetic Azimuth	156 18 20
Grid Azimuth	157 47 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040039A	11/5/2002	AHTD	BENTON	43	090147,090268

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,827.7640	
Easting (M)	170,362.3000	
Elevation (M)*		
Northing (SFT)	691,690.7557	
Easting (SFT)	558,930.3126	
Elevation (SFT)*		

Convergence Angle	-1	29	9.9624526
Scale Factor			0.999994862
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	12	24.4058868
Longitude	94	33	13.9688424
Ellipsoid Height (M):	306.364		
Geoid Height (M):	-28.262		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 43 AND STATE HIGHWAY 264 LOCATED IN THE NORTHEAST PART OF SILOAM SPRINGS, GO NORTH ON STATE HIGHWAY 43 FOR 2.38 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 43 AND 1.40 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040039A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	356	42.50	139.4
MK # 2				
MK # 3				

AZ Mark Station	040039
Geodetic Azimuth	336 18 25
Grid Azimuth	337 47 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040041	12/4/2002	AHTD	BENTON	59	090014,090151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	242,041.8932
Easting (M)	179,255.6400
Elevation (M)*	
Northing (SFT)	794,099.1113
Easting (SFT)	588,107.8789
Elevation (SFT)*	
Convergence Angle	-1 26 1.0506490
Scale Factor	1.000060834
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	29	24.0667080
Longitude	94	27	49.3218468
Ellipsoid Height (M):	264.991		
Geoid Height (M):	-28.282		

Location Description

TO REACH THE STATION FROM THE ARKANSAS MISSOURI STATE LINE NORTH OF SULPHUR SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 1.21 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.9 METERS EAST OF THE CENTER OF STATE HIGHWAY 59 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040041 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT WILL ALSO BE USED FOR JOB # 090151.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	METAL FENCE POST	226	18.70	61.4
MK # 2	COMBINATION POLE	132	20.00	65.6
MK # 3	NORTH END CORRIGATED METAL PIPE	142	29.70	97.4

AZ Mark Station	040041A
Geodetic Azimuth	141 30 18
Grid Azimuth	142 56 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	SILOAM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040041A	12/4/2002	AHTD	BENTON	59	090014,090151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	241,654.9661	
Easting (M)	179,547.8590	
Elevation (M)*		
Northing (SFT)	792,829.6679	
Easting (SFT)	589,066.6007	
Elevation (SFT)*		

Convergence Angle	-1	25	53.9953536
Scale Factor	1.000059891		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	29	11.7557988
Longitude	94	27	37.1972448
Ellipsoid Height (M):	267.024		
Geoid Height (M):	-28.269		

Location Description

TO REACH THE STATION FROM THE ARKANSAS MISSOURI STATE LINE NORTH OF SULPHUR SPRINGS, GO SOUTH ON STATE HIGHWAY 59 FOR 1.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS WEST OF THE CENTER OF STATE HIGHWAY 59 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040041A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT WILL ALSO BE USED FOR JOB # 090151.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	300	22.90	75.1
MK # 2				
MK # 3				

AZ Mark Station	040041
Geodetic Azimuth	321 30 25
Grid Azimuth	322 56 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	SILOAM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040042	12/5/2002	AHTD	BENTON	340	090156, O109D25,09X007

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	239,994.6518	0.0020
Easting (M)	197,444.5524	0.0020
Elevation (M)*		

Northing (SFT)	787,382.4534	
Easting (SFT)	647,782.6690	
Elevation (SFT)*		

Convergence Angle	-1	18	54.8475217
Scale Factor			1.000056856
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	28	31.8265752
Longitude	94	15	36.8878248
Ellipsoid Height:			306.281
Grid Northing (Meters)			239,994.6581
Grid Easting (Meters)			197,444.5350

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	28	31.8263844	
Longitude	94	15	36.8871228	
Ellipsoid Height (M):			306.179	0.0070
Geoid Height (M):			-28.223	0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 340 IN BELLA VISTA, GO WEST ON STATE HIGHWAY 340 FOR 0.70 MILES TO THE STATION ON THE LEFT. THE STATION IS 5.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 340 ANd 0.40 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040042 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF 18" CULVERT ACROSS ROYC E DR	334	18.20	59.7
MK # 2	POWER POLE	323	27.50	90.2
MK # 3				

AZ Mark Station	040042A
Geodetic Azimuth	72 39 09
Grid Azimuth	73 58 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, CTA1 (CASSPORT)
Ref Mon # 2	ARHR (V 26)
Ref Mon # 3	SAL5 (SILOAM)

Comments

CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040042A	12/5/2002	AHTD	BENTON	340	090156, O109D25,09X007

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	240,119.1569	0.0020
Easting (M)	197,877.8047	0.0020
Elevation (M)*		

Northing (SFT)	787,790.9339	
Easting (SFT)	649,204.0976	
Elevation (SFT)*		

Convergence Angle	-1	18	44.7902058
Scale Factor			1.000057186
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	28	36.1863840
Longitude	94	15	19.6043832
Ellipsoid Height:			280.707
Grid Northing (Meters)			240,119.1532
Grid Easting (Meters)			197,877.7830

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	28	36.1865208	
Longitude	94	15	19.6035156	
Ellipsoid Height (M):			280.599	0.0070
Geoid Height (M):			-28.226	0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 340 IN BELLA VISTA, GO WEST ON STATE HIGHWAY 340 FOR 0.40 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.40 METERS NORTH OF THE CENTER OF STATE HIGHWAY 340 AND 0.25 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "040042A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	60	15.90	52.2
MK # 2	GATE POST	253	10.30	33.8
MK # 3	CORRIGATED METAL PIPE	76	31.20	102.4

AZ Mark Station	040042
Geodetic Azimuth	252 39 20
Grid Azimuth	253 58 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, CTA1 (CASSPORT)
Ref Mon # 2	ARHR (V 26)
Ref Mon # 3	SAL5 (SILOAM)

Comments

CONSTRAINED ELEVATION ON NGS 1ST ORDER BM V 26 IN FINAL STATIC ADJUSTMENT FROM SIMULTANEOUS STATIC OBSERVATIONS ON GPS #'S 040042 & 040042A & V 26.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040043	9/11/2003	AHTD	BENTON	102	090174

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	226,928.3551
Easting (M)	197,400.0510
Elevation (M)*	
Northing (SFT)	744,514.1117
Easting (SFT)	647,636.6673
Elevation (SFT)*	

Convergence Angle	-1	18	48.8862068
Scale Factor	1.000026976		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	21	28.0236276
Longitude	94	15	26.6425380
Ellipsoid Height (M):	357.121		
Geoid Height (M):	-28.040		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71B AND HIGHWAY 102, IN BENTONVILLE, GO WEST ON HIGHWAY 102 2.4 MILES TO THE STATION ON THE LEFT, 17.6 METERS EAST OF A DRIVEWAY, SOUTH 12.2 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040040 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANDT	149	5.50	18.0
MK # 2	MAIL BOX#1619	300	14.80	48.6
MK # 3				

AZ Mark Station	040040A
Geodetic Azimuth	272 56 09
Grid Azimuth	274 14 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT,BENTPORTAZ
Ref Mon # 2	V26
Ref Mon # 3	OKMU

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040043A	9/11/2003	AHTD	BENTON	102	090174

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	226,980.4181
Easting (M)	196,699.3330
Elevation (M)*	
Northing (SFT)	744,684.9217
Easting (SFT)	645,337.7284
Elevation (SFT)*	

Convergence Angle	-1	19	5.2638613
Scale Factor			1.000027052
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	21	29.1901644
Longitude	94	15	54.7877160
Ellipsoid Height (M):	358.860		
Geoid Height (M):	-28.037		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71B AND HIGHWAY 102, IN BENTONVILLE, GO WEST ON HIGHWAY 102 2.8 MILES TO THE STATION ON THE RIGHT, 6.6 METERS WEST OF A TURN IN, NORTH 6.05 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 6.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040040A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	347	6.90	22.6
MK # 2	FIRE HYDRANDT	289	16.20	53.1
MK # 3				

AZ Mark Station	040040
Geodetic Azimuth	92 55 52
Grid Azimuth	94 14 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT,BENTPORTAZ
Ref Mon # 2	V26
Ref Mon # 3	OKMU

Comments

MARK WAS DESTROYED DURING WIDENING JOB 090174

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040044	9/24/2003	AHTD	BENTON	72	090178,090236

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	229,436.9701	
Easting (M)	204,840.8950	
Elevation (M)*	399.332	
Northing (SFT)	752,744.4594	
Easting (SFT)	672,048.8363	
Elevation (SFT)*	1,310.143	

Convergence Angle	-1	15	56.5602823
Scale Factor	1.000032749		
Elevation Adjust. Factor	0.9999373356		
Combined Adjust. Factor	0.9999700826		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	54.8190228
Longitude	94	10	30.4985568
Ellipsoid Height (M):	371.243		
Geoid Height (M):	-28.077		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY I-540 AND HIGHWAY 72, EXIT 88, EAST OF BENTONVILLE, GO TO THE NORTH EAST CORNER OF THE OVERPASS BRIDGE TO THE STATION MARK, NORTH 8.50 METERS OF THE CENTERLINE OF HIGHWAY 72 AND NORTH 1.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 040044 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE CORNER OF BRIDGE END	164	2.90	9.5
MK # 2	3rd GUARD RAIL POST GOING EAST FROM BRIDGE	73	3.30	10.8
MK # 3				

AZ Mark Station	040044A
Geodetic Azimuth	307 06 32
Grid Azimuth	308 22 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT, BENTPORT AZ
Ref Mon # 2	V 26
Ref Mon # 3	OKMU, CNWM CORS

Comments

3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040044A	9/24/2003	AHTD	BENTON	I-540	090178,090236

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	229,910.5630	
Easting (M)	204,242.8270	
Elevation (M)*	387.839	
Northing (SFT)	754,298.2388	
Easting (SFT)	670,086.6749	
Elevation (SFT)*	1,272.433	

Convergence Angle	-1	16	10.7643551
Scale Factor	1.000033760		
Elevation Adjust. Factor	0.9999391392		
Combined Adjust. Factor	0.9999728971		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	9.7499688
Longitude	94	10	54.9084108
Ellipsoid Height (M):	359.753		
Geoid Height (M):	-28.080		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY I-540 AND HIGHWAY 72, EXIT 88, EAST OF BENTONVILLE, GO NORTH ON I-540 0.45 MILES TO THE STATION ON THE LEFT, EAST 6.1 METERS OF THE CENTERLINE OF THE SERVICE ROAD, 12.50 METERS WEST OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE OF I-540 AND EAST 0.50 METES OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040044A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040044A
Geodetic Azimuth	127 06 18
Grid Azimuth	128 22 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT, BENTPORT AZ
Ref Mon # 2	V 26
Ref Mon # 3	OKMU, CNWM CORS

Comments

3-wire levels ran by crew S5101 in June 07 from 1st order NGS mark R 26.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040046	10/6/2003	AHTD	BENTON	I-540	090180,012069,012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	221,404.0410	
Easting (M)	203,716.2740	
Elevation (M)*	385.353	
Northing (SFT)	726,389.7578	
Easting (SFT)	668,359.1423	
Elevation (SFT)*	1,264.280	

Convergence Angle	-1	16	18.6466606
Scale Factor	1.000015904		
Elevation Adjust. Factor	0.9999395292		
Combined Adjust. Factor	0.9999554322		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	33.4727388
Longitude	94	11	8.4542388
Ellipsoid Height (M):	357.324		
Geoid Height (M):	-28.041		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY I-540 AND iSTATE HIGHWAY 94 OVERPASS, LOCATED ABOUT 3.22 KM (2.00 MI) WEST iOF ROGERS GO SOUTH ON U.S. HIGHWAY I-540 FOR 0..35 MILES TO THE iSTATION ON THE RIGHT. THE STATION IS 25.44 METERS WEST OF THE iCENTER OF U.S. HIGHWAY I-540 SOUTH BOUND LANE AND 2.40 METERS iEAST OF A WITNESS POST SET IN A WEB WIRE FENCE. THE STATION MARKi IS A STANDARD 64mm CAP STAMPED "040046 2003" SET ON TOP OF AN iIRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL POLE WITH A SIREN ON TOP	342	32.50	106.6
MK # 2				
MK # 3				

AZ Mark Station	040018
Geodetic Azimuth	5 26 50
Grid Azimuth	6 43 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENTPORT, BENTPORTAZ
Ref Mon # 2	OKMU, CNWM
Ref Mon # 3	V 26

Comments

3 - Wire Elevations ran from K 309 in Job # 090180 and est. ELEV 1264.4145. 3-Wire Levels ran in Dec 2007 by crew S5101 from NGS marks Q 310, J 27, K 310, A 27, L 309 and came up with an elevation of 1264.2797 feet.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040048	9/8/2000	AHTD	BENTON	CR 215	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,067.8600	
Easting (M)	194,256.6060	
Elevation (M)*	325.776	
Northing (SFT)	695,759.3040	
Easting (SFT)	637,323.5482	
Elevation (SFT)*	1,068.815	

Convergence Angle	-1	19	54.1705888
Scale Factor	0.999998025		
Elevation Adjust. Factor	0.9999488778		
Combined Adjust. Factor	0.9999469029		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	23.6872524
Longitude	94	17	18.8344608
Ellipsoid Height (M):	297.733		
Geoid Height (M):	-28.052		

Location Description

TO REACH THE STATION MARK FROM THE WASHINGTON AND BENTON COUNTY iLINES ON STATE HIGHWAY 112, NORTH OF ELM SPRINGS, GO NORTH ON iSTATE HIGHWAY 112 0.50 MILES TO MARCHANT ROAD AND TURN LEFT AND iGO WEST ON THE PAVED ROAD 1.6 MILES TO A"T" JUNCTION AND GO iRIGHT ON SNAVLEY ROAD 1.8 MILES TO STATION ON THE LEFT, WEST OF iTHE CENTERLINE OF THE ROAD 5.5 METERS AND EAST 0.50 METERS OF A iWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED i"040048 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH iTHE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER FOR GATE	27	25.30	83.0
MK # 2				
MK # 3				

AZ Mark Station	040048A
Geodetic Azimuth	3 36 07
Grid Azimuth	4 56 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040048A	9/8/2004	AHTD	BENTON	CR 215	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,489.3800	
Easting (M)	194,292.9930	
Elevation (M)*	331.810	
Northing (SFT)	697,142.2409	
Easting (SFT)	637,442.9279	
Elevation (SFT)*	1,088.614	

Convergence Angle	-1	19	53.5512398
Scale Factor			0.999998768
Elevation Adjust. Factor			0.9999479309
Combined Adjust. Factor			0.9999466990

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	37.3864728
Longitude	94	17	17.7701028
Ellipsoid Height (M):	303.782		
Geoid Height (M):	-28.051		

Location Description

TO REACH THE STATION MARK FROM THE WASHINGTON AND BENTON COUNTY iLINES ON STATE HIGHWAY 112, NORTH OF ELM SPRINGS, GO NORTH ON iSTATE HIGHWAY 112 0.50 MILES TO MARCHANT ROAD AND TURN LEFT AND iGO WEST ON THE PAVED ROAD 1.6 MILES TO A"T" JUNCTION AND GO iRIGHT ON SNAVLEY ROAD 2.1 MILES TO STATION ON THE RIGHT, EAST OFi THE CENTERLINE OF THE ROAD 6.2 METERS AND WEST 0.50 METERS OF Ai WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED i"040048A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH iTHE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	28	2.10	6.9
MK # 2	TELEPHONE RISER	11	3.20	10.5
MK # 3				

AZ Mark Station	040048
Geodetic Azimuth	183 36 08
Grid Azimuth	184 56 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040049 (p.1)	9/8/2004	AHTD	BENTON	112	001966,090347,090402

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	214,825.0103	0.0020
Easting (M)	199,187.4234	0.0020
Elevation (M)*	346.880	
Northing (SFT)	704,805.0546	
Easting (SFT)	653,500.7383	
Elevation (SFT)*	1,138.055	

Convergence Angle	-1	18	0.7717738
Scale Factor			1.000003160
Elevation Adjust. Factor			0.9999455662
Combined Adjust. Factor			0.9999487260

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	14	56.7901536
Longitude	94	14	3.9574320
Ellipsoid Height:			318.822
Grid Northing (Meters)			214,825.0740
Grid Easting (Meters)			199,187.4230

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	36	14	56.7880872
Longitude	94	14	3.9573600
Ellipsoid Height (M):	318.847		0.0020
Geoid Height (M):	-28.034		0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 ìAND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY ì112 0.75 MILES TO THE STATION MARK ON THE LEFT, EAST 9.4 METERS ìOF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A ìWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ì"040049 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH ìTHE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDERGROUND CABLE MARKER	190	27.70	90.9
MK # 2	COMBINATION POLE	196	35.30	115.8
MK # 3				

AZ Mark Station	040049A
Geodetic Azimuth	222 07 41
Grid Azimuth	223 25 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL5
Ref Mon # 2	MOCA
Ref Mon # 3	ARHR

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. STATIC UPDATED IN AUGUST OF 2013 FROM STATIC OBSERVATIONS BY S5112 FOR JOB #'S 090347 & 090402. **NOTE: ELEVATION FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT.
**********SEE DATASHEET FOR 040049 (p.2) FOR LATEST OBSERVED POSITION ON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040049 (p.2)	9/8/2004	AHTD	BENTON	112	012270, 090513

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	214,825.0206	0.0020
Easting (M)	199,187.4203	0.0020
Elevation (M)*	346.820	
Northing (SFT)	704,805.0884	
Easting (SFT)	653,500.7281	
Elevation (SFT)*	1,137.859	

Convergence Angle	-1	18	0.7718513
Scale Factor	1.000003160		
Elevation Adjust. Factor	0.9999455756		
Combined Adjust. Factor	0.9999487354		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	14	56.7884220
Longitude	94	14	3.9574932
Ellipsoid Height (M):	318.687		0.0030
Geoid Height (M):	-28.125		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 ìAND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY ì112 0.75 MILES TO THE STATION MARK ON THE LEFT, EAST 9.4 METERS ìOF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A ìWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ì"040049 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH ìTHE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040118
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

SEE DATASHEET 040049 (p.1) FOR PREVIOUS DATA ON THIS GPS POINT
**********ELEV.
BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040050	9/8/2004	AHTD	BENTON	CR 72	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	213,816.3890
Easting (M)	202,894.7690
Elevation (M)*	387.197
Northing (SFT)	701,495.9362
Easting (SFT)	665,663.9213
Elevation (SFT)*	1,270.329

Convergence Angle	-1	16	33.8619970
Scale Factor			1.000001483
Elevation Adjust. Factor			0.9999392398
Combined Adjust. Factor			0.9999407227

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	26.7775368
Longitude	94	11	34.6019604
Ellipsoid Height (M):	359.218		
Geoid Height (M):	-28.020		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 ìAND WAGONWHEEL ROAD, ON THE SOUTH EDGE OF CAVE SPRINGS, GO EAST ìON WAGONWHEEL ROAD FOR 1.8 MILES TO ZIEGLER LANE ON THE LEFT. GOì LEFT ON ZIEGLER LANE FOR 0.35 MILES TO BROWN LANE AND CONTINUE ìAHEAD ON ZIEGLER LANE FOR 0.80 MILES TO A GRAVEL ROAD ON THE ìRIGHT, TURN RIGHT AND GO 0.15 MILES TO THE STATION ON THE RIGHT, ì WEST 4.40 METERS OF THE CENTERLINE AND EAST 0.50 METERS OF A ìWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ì"040050 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH ìTHE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	52	10.85	35.6
MK # 2	BRACE POST ON FENCE	353	7.90	25.9
MK # 3				

AZ Mark Station	040050A
Geodetic Azimuth	144 05 59
Grid Azimuth	145 2 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040050A	9/8/2004	AHTD	BENTON	CR 72	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	213,593.3500
Easting (M)	203,048.7720
Elevation (M)*	391.768
Northing (SFT)	700,764.1825
Easting (SFT)	666,169.1795
Elevation (SFT)*	1,285.326
Convergence Angle	-1 16 30.1582269
Scale Factor	1.000001088
Elevation Adjust. Factor	0.9999385226
Combined Adjust. Factor	0.9999396105

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 14 19.6544832
Longitude	94 11 28.2369912
Ellipsoid Height (M):	363.774
Geoid Height (M):	-28.018

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 ìAND WAGONWHEEL ROAD, ON THE SOUTH EDGE OF CAVE SPRINGS, GO EAST ìON WAGONWHEEL ROAD FOR 1.8 MILES TO ZIEGLER LANE ON THE LEFT. GOì LEFT ON ZIEGLER LANE FOR 0.35 MILES TO BROWN LANE AND CONTINUE ìAHEAD ON ZIEGLER LANE FOR 0.70 MILES TO THE STATION ON THE ìRIGHT, SOUTH 5.25 METERS OF THE CENTERLINE AND NORTH 0.50 METERSì OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP ìSTAMPED "040050A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN ìFLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	25	13.45	44.1
MK # 2	END OF FENCE	35	13.65	44.8
MK # 3	POWER POLE	299	29.35	96.3

AZ Mark Station	040050
Geodetic Azimuth	324 06 03
Grid Azimuth	325 22 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040051	9/8/2004	AHTD	BENTON	540	001966, 012111,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	213,011.7080
Easting (M)	204,970.8080
Elevation (M)*	393.048
Northing (SFT)	698,855.9120
Easting (SFT)	672,475.0592
Elevation (SFT)*	1,289.526

Convergence Angle	-1	15	45.0790450
Scale Factor			1.000000123
Elevation Adjust. Factor			0.9999383217
Combined Adjust. Factor			0.9999384447

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	2.1695748
Longitude	94	10	10.7679252
Ellipsoid Height (M):	365.039		
Geoid Height (M):	-28.009		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND WAGON ìWHEEL ROAD (EXIT 76), SOUTH OF ROGERS, GO NORTH ON I-540 0.80 ìMILES TO THE STATION IN THE MEDIAN, 10.70 METERS NORTHWEST OF ìTHE NORTH BOUND LANE, SOUTHEAST 5.10 METERS OF THE SOUTH BOUND ìLANES AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION ìMARK IS A STANDARD 64mm CAP STAMPED "040051 2004" ON TOP OF A ì0.37 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040051A
Geodetic Azimuth	236 56 28
Grid Azimuth	238 12 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040051A	9/8/2004	AHTD	BENTON	540	001966, 012111,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,647.4380	
Easting (M)	204,383.2210	
Elevation (M)*	381.317	
Northing (SFT)	697,660.8028	
Easting (SFT)	670,547.2842	
Elevation (SFT)*	1,251.037	

Convergence Angle	-1	15	58.5804927
Scale Factor	0.999999452		
Elevation Adjust. Factor	0.9999401625		
Combined Adjust. Factor	0.9999396146		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	49.9337328
Longitude	94	10	33.9703104
Ellipsoid Height (M):	353.317		
Geoid Height (M):	-28.010		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND WAGON ìWHEEL ROAD (EXIT 76), SOUTH OF ROGERS, GO NORTH ON I-540 0.40 ìMILES TO THE STATION IN THE MEDIAN, 10.35 METERS NORTHWEST OF ìTHE NORTH BOUND LANE, SOUTHEAST 5.00 METERS OF THE SOUTH BOUND ìLANES AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION ìMARK IS A STANDARD 64mm CAP STAMPED "040051A 2004" ON TOP OF A ì1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040051
Geodetic Azimuth	56 56 14
Grid Azimuth	58 12 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040052	9/8/2004	AHTD	BENTON	540	66,012069,090240,012111,01

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	215,054.0580	
Easting (M)	206,785.2050	
Elevation (M)*	388.133	
Northing (SFT)	705,556.5220	
Easting (SFT)	678,427.7934	
Elevation (SFT)*	1,273.400	

Convergence Angle	-1	15	3.8478416
Scale Factor			1.000003889
Elevation Adjust. Factor			0.9999390930
Combined Adjust. Factor			0.9999429817

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	15	9.7047612	
Longitude	94	8	59.9116524	
Ellipsoid Height (M):	360.141			
Geoid Height (M):	-28.013			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND STATE ¡HIGHWAY 264 (EXIT 78), IN LOWELL, GO SOUTH ON I-540 0.1 MILES ¡TO THE STATION MARK ON THE LEFT, EAST 23.8 METERS OF THE NORTH ¡BOUND LANE AND WEST 0.50 METERS OF A WITNESS POST. THE STATION ¡MARK IS A STANDARD 64mm CAP STAMPED " 040052 2004" ON TOP OF A ¡1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040052A
Geodetic Azimuth	185 59 30
Grid Azimuth	187 14 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040052A	9/8/2004	AHTD	BENTON	540	001966,012069, 012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,516.6670	
Easting (M)	206,716.9080	
Elevation (M)*	390.765	
Northing (SFT)	703,793.4316	
Easting (SFT)	678,203.7223	
Elevation (SFT)*	1,282.035	

Convergence Angle	-1	15	5.1657831
Scale Factor	1.000002904		
Elevation Adjust. Factor	0.9999386800		
Combined Adjust. Factor	0.9999415838		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	52.2259872
Longitude	94	9	2.1765492
Ellipsoid Height (M):	362.767		
Geoid Height (M):	-28.010		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-540 AND STATE ìHIGHWAY 264 (EXIT 78), IN LOWELL, GO SOUTH ON I-540 0.4 MILES ìTO THE STATION MARK IN THE MEDIAN, EAST 5.35 METERS OF THE NORTHì BOUND LANE, WEST 10.75 METERS OF THE SOUTH BOUND LANE AND EAST ì0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD ì64mm CAP STAMPED " 040052A 2004" ON TOP OF A 1.22 METER IRON ìROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040052
Geodetic Azimuth	5 59 29
Grid Azimuth	7 14 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004. Verified by crew S5101 in December 2007 from NGS marks Q 310, J 27, K 310, A 27, L 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040053	9/8/2004	AHTD	BENTON	71B	001966,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,658.3550	
Easting (M)	207,857.3520	
Elevation (M)*	413.761	
Northing (SFT)	697,696.6197	
Easting (SFT)	681,945.3290	
Elevation (SFT)*	1,357.481	

Convergence Angle	-1	14	37.6518229
Scale Factor	0.999999607		
Elevation Adjust. Factor	0.9999350716		
Combined Adjust. Factor	0.9999346786		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	52.7565216
Longitude	94	8	14.8935084
Ellipsoid Height (M):	385.778		
Geoid Height (M):	-27.997		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF 71B AND THE ìWASHINGTON/BENTON COUNTY LINE, NORTH OF FAYETTEVILLE, GO NORTH ìON 71B FOR 1.40 MILE TO THE STATION ON THE LEFT, NORTH OF A CONC ìDRIVE 21.9 METERS, WEST 13.80 METERS OF THE CENTERLINE OF THE ìHIGHWAY AND EAST 0.75 METERS OF A WITNESS POST. THE STATION MARKì IS A STANDARD 64mm CAP STAMPED "040053 2004" ON TOP OF A 1.22 ìMETER IRON ROD. THE MARK IS NORTH OF THE JUNCTION OF 71B AND ì264E ON 71B 0.40 MILES.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CMP	178	15.25	50.0
MK # 2	LIGHT POLE	358	20.30	66.6
MK # 3	NORTHEAST CORNER METAL BRIDGE	243	23.00	75.5

AZ Mark Station	040053A
Geodetic Azimuth	178 44 12
Grid Azimuth	179 58 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040053A	9/8/2004	AHTD	BENTON	71B	001966,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	212,056.5050
Easting (M)	207,857.5560
Elevation (M)*	410.220
Northing (SFT)	695,722.0502
Easting (SFT)	681,945.9983
Elevation (SFT)*	1,345.862
Convergence Angle	-1 14 37.3426732
Scale Factor	0.999998542
Elevation Adjust. Factor	0.9999356273
Combined Adjust. Factor	0.9999341694

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 13 33.2353236
Longitude	94 8 14.3622312
Ellipsoid Height (M):	382.232
Geoid Height (M):	-27.994

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF 71B AND THE ìWASHINGTON/BENTON COUNTY LINE, NORTH OF FAYETTEVILLE, GO NORTH ìON 71B FOR 1.10 MILE TO THE STATION ON THE RIGHT, SOUTH OF A CONCì DRIVE 22.1 METERS, EAST 14.80 METERS OF THE CENTERLINE OF THE ìHIGHWAY AND WEST 1.85 METERS OF A WITNESS POST. THE STATION MARKì IS A STANDARD 64mm CAP STAMPED "040053A 2004" ON TOP OF A 1.22 ìMETER IRON ROD. THE MARK IS 0.10 MILES NORTH OF 71B AND 264E.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	ELECTRIC METER	9	7.55	24.8
MK # 2	LIGHT POLE	170	10.90	35.8
MK # 3				

AZ Mark Station	040053
Geodetic Azimuth	358 44 12
Grid Azimuth	359 58 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040054	9/8/2004	AHTD	BENTON	412	001966,012153,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,483.3200	
Easting (M)	209,963.1050	
Elevation (M)*	423.395	
Northing (SFT)	697,122.3590	
Easting (SFT)	688,853.9537	
Elevation (SFT)*	1,389.089	

Convergence Angle	-1	13	48.5073984
Scale Factor			0.999999377
Elevation Adjust. Factor			0.9999335599
Combined Adjust. Factor			0.9999329370

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	48.5539500
Longitude	94	6	50.4382788
Ellipsoid Height (M):	395.428		
Geoid Height (M):	-27.991		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 ìAND OLD WIRE ROAD, NORTH OF SPRINGDALE, GO NORTH ON OLD WIRE ìROAD 0.45 MILES TO THE STATION ON THE LEFT, NORTH 14.0 METERS OFì A GRAVEL DRIVE, WEST 8.70 METERS OF THE CENTERLINE OF THE ìHIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION ìMARK IS A STANDARD 64mm CAP STAMPED "040054 2004" ON TOP OF A ì1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH GATE POST	169	9.90	32.5
MK # 2				
MK # 3				

AZ Mark Station	040054A
Geodetic Azimuth	354 03 55
Grid Azimuth	355 17 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3rd Order 3-Wire Levels were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004 (elev. 423.3994 meters). 3rd Order Combination of 3-Wire & Digital Levels re-ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012 & the elevation updated.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040054A	9/8/2004	AHTD	BENTON	412	001966,012153,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,996.7580	
Easting (M)	209,920.8510	
Elevation (M)*	420.963	
Northing (SFT)	698,806.8635	
Easting (SFT)	688,715.3253	
Elevation (SFT)*	1,381.108	

Convergence Angle	-1	13	49.7486773
Scale Factor	1.000000288		
Elevation Adjust. Factor	0.9999339416		
Combined Adjust. Factor	0.9999342296		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	5.1782280
Longitude	94	6	52.5714300
Ellipsoid Height (M):	393.011		
Geoid Height (M):	-27.994		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 ìAND OLD WIRE ROAD, NORTH OF SPRINGDALE, GO NORTH ON OLD WIRE ìROAD 0.75 MILES TO THE STATION ON THE RIGHT, ACROSS THE ROAD FROMì THE JUNCTION OF OLD WIRE ROAD AND QUAIL RUN STREET, 8.70 METERSì EASTOF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A ìWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ì"040054A 2004" ON TOP OF A 0.77 METER IRON ROD DRIVEN FLUSH WITHì THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040054
Geodetic Azimuth	174 03 54
Grid Azimuth	175 17 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3rd Order 3-Wire Levels were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004 (elev. 420.9661 meters). 3rd Order Combination of 3-Wire & Digital Levels re-ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012 & the elevation updated.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040055	9/8/2004	AHTD	BENTON	412	001966,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,505.0109	
Easting (M)	211,844.9850	
Elevation (M)*	429.865	
Northing (SFT)	693,912.6899	
Easting (SFT)	695,028.0883	
Elevation (SFT)*	1,410.315	

Convergence Angle	-1	13	4.1819555
Scale Factor			0.999997725
Elevation Adjust. Factor			0.9999325447
Combined Adjust. Factor			0.9999302699

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	18.1258572
Longitude	94	5	34.2645216
Ellipsoid Height (M):	401.923		
Geoid Height (M):	-27.983		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 ìAND MOUNTIAN ROAD, NORTHEAST OF SPRINGDALE, GO SOUTH ON ìMOUNTIAN ROAD FOR 0.15 MILES TO THE STATION MARK ON THE LEFT, ìEAST OF THE CENTERLINE OF THE HIGHWAY 8.10 METERS AND EAST 0.50 ìMETERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm ìCAP STAMPED "040055 2004" ON TOP OF A 1.22 METER IRON ROD DRIVENì FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANDT	180	51.00	167.3
MK # 2				
MK # 3				

AZ Mark Station	040055A
Geodetic Azimuth	182 19 21
Grid Azimuth	183 32 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040055A	9/8/2004	AHTD	BENTON	412	001966,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,935.1020	
Easting (M)	211,809.7240	
Elevation (M)*	426.880	
Northing (SFT)	692,042.9138	
Easting (SFT)	694,912.4028	
Elevation (SFT)*	1,400.522	

Convergence Angle	-1	13	4.7210744
Scale Factor	0.999996731		
Elevation Adjust. Factor	0.9999330131		
Combined Adjust. Factor	0.9999297443		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	59.6159820
Longitude	94	5	35.1910032
Ellipsoid Height (M):	398.952		
Geoid Height (M):	-27.979		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 ìAND MOUNTIAN ROAD, NORTHEAST OF SPRINGDALE, GO SOUTH ON ìMOUNTIAN ROAD FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT, ì12.25 METERS SOUTH OF A GRAVEL DRIVE, WEST OF THE CENTERLINE OF ìTHE HIGHWAY 4.95 METERS AND EAST 0.50 METERS OF A WITNESS POST. ìTHE STATION MARK IS A STANDARD 64mm CAP STAMPED "040055A 2004" ìON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	198	3.57	11.7
MK # 2	CMP	10	7.30	24.0
MK # 3	TELEPHONE RISER	1	20.50	67.3

AZ Mark Station	040055
Geodetic Azimuth	2 19 21
Grid Azimuth	3 32 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040056	9/9/2004	AHTD	BENTON	412	001966,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	210,073.2280
Easting (M)	213,440.1630
Elevation (M)*	423.890
Northing (SFT)	689,215.2489
Easting (SFT)	700,261.6014
Elevation (SFT)*	1,390.711

Convergence Angle	-1	12	26.3210347
Scale Factor			0.999995304
Elevation Adjust. Factor			0.9999334823
Combined Adjust. Factor			0.9999287866

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	12	32.7795912	
Longitude	94	4	29.2001160	
Ellipsoid Height (M):	395.942			
Geoid Height (M):	-27.975			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 ìAND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY ì264 FOR 2.5 MILES TO NORTH MOUNTIAN DRIVE AND TURN RIGHT AND GO ì0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER ìROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN ìLEFT AND GO 0.05 MILES TO THE STATION ON THE RIGHT, SOUTH 5.50 ìMETERS OF THE CENTERLINE AND NORTH 3.25 METERS OF A WITNESS POST.ì THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040056 2004" ìON TOP OF A 0.67 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040056A
Geodetic Azimuth	89 46 41
Grid Azimuth	90 59 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040056A	9/9/2004	AHTD	BENTON	412	001966,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,062.7550	
Easting (M)	214,049.0560	
Elevation (M)*	426.465	
Northing (SFT)	689,180.8887	
Easting (SFT)	702,259.2779	
Elevation (SFT)*	1,399.160	

Convergence Angle	-1	12	12.1345899
Scale Factor			0.999995308
Elevation Adjust. Factor			0.9999330783
Combined Adjust. Factor			0.9999283866

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	32.8554360
Longitude	94	4	4.8205560
Ellipsoid Height (M):	398.533		
Geoid Height (M):	-27.975		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 iAND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY i264 FOR 2.5 MILES TO NORTH MOUNTIAN DRIVE AND TURN RIGHT AND GO i0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER iROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN iLEFT AND GO 0.30 MILES TO THE STATION ON THE LEFT, NORTH 6.4 iMETERS OF THE CENTERLINE AND SOUTH 4.90 METERS OF A WITNESS iPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040056A i2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE iGROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	57	8.65	28.4
MK # 2	GATE POST WEST END	158	16.50	54.1
MK # 3				

AZ Mark Station	040056
Geodetic Azimuth	269 46 55
Grid Azimuth	270 59 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040057	10/6/2004	AHTD	BENTON	59	090196,090268

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	206,908.1350	
Easting (M)	172,590.9020	
Elevation (M)*	360.135	
Northing (SFT)	678,831.1062	
Easting (SFT)	566,241.9843	
Elevation (SFT)*	1,181.543	

Convergence Angle	-1	28	15.7207475
Scale Factor	0.999988452		
Elevation Adjust. Factor	0.9999434863		
Combined Adjust. Factor	0.9999319389		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	19.1467740
Longitude	94	31	40.7538804
Ellipsoid Height (M):	331.873		
Geoid Height (M):	-28.250		

Location Description

THE STATION MARK IS LOCATED AT THE SOUTHEAST CORNER OF THE STATE HIGHWAY 412 OVERPASS BRIDGE OVER STATE HIGHWAY 59 SOUTH, IN SILOAM SPRINGS, EAST OF THE CENTERLINE OF HIGHWAY 59 6.0 METERS, AND EAST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040057 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER OF BRIDGE	5	14.60	47.9
MK # 2	NORTHEAST CORNER OF STORM DRAIN	189	5.05	16.6
MK # 3				

AZ Mark Station	040057A
Geodetic Azimuth	275 22 13
Grid Azimuth	276 50 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL1
Ref Mon # 2	NDS1
Ref Mon # 3	040038

Comments

3-wire elevations based on NGS K31 in Job 090024 by S5112 in July 05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040057A	10/6/2004	AHTD	BENTON	412	090196,090268

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	206,966.3940	
Easting (M)	172,105.3070	
Elevation (M)*	362.016	
Northing (SFT)	679,022.2443	
Easting (SFT)	564,648.8280	
Elevation (SFT)*	1,187.714	

Convergence Angle	-1	28	27.0588090
Scale Factor			0.999988525
Elevation Adjust. Factor			0.9999431911
Combined Adjust. Factor			0.9999317167

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	20.6314176
Longitude	94	32	0.2384628
Ellipsoid Height (M):	333.745		
Geoid Height (M):	-28.256		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 SOUTH AND STATE HIGHWAY 412, IN SILOAM SPRINGS, GO WEST ON HIGHWAY 412 FOR 0.30 MILES TO THE STATION MARK ON THE RIGHT, 11.0 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040057A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	223	1.60	5.2
MK # 2	DROP INLET	102	9.90	32.5
MK # 3				

AZ Mark Station	040057
Geodetic Azimuth	95 22 02
Grid Azimuth	96 50 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL1
Ref Mon # 2	NDS1
Ref Mon # 3	040038

Comments

3-wire elevations based on NGS K31 in Job 090024 by S5112 in July 05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040058	10/6/2004	AHTD	BENTON	59	090196, 090506

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	200,138.7619	
Easting (M)	171,892.5290	
Elevation (M)*	287.513	
Northing (SFT)	656,621.9213	
Easting (SFT)	563,950.7389	
Elevation (SFT)*	943.282	

Convergence Angle	-1	28	27.9209957
Scale Factor			0.999978081
Elevation Adjust. Factor			0.9999548819
Combined Adjust. Factor			0.9999329639

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	6	39.0101220	
Longitude	94	32	1.7201400	
Ellipsoid Height (M):	259.225			
Geoid Height (M):	-28.297			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE ROUTE 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 7.89 KM. (4.90 MI.) TO THE NORTH END OF A BRIDGE OVER THE ILLINOIS RIVER AND THE STATION ON THE LEFT. 50 METERS SOUTH-SOUTHWEST OF THE CENTER OF "OLD GOFORTH ROAD", 6.30 METERS EAST-SOUTHEAST OF THE CENTER OF HWY-59 AND 0.50 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "040058 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER BRIDGE	209	11.45	37.6
MK # 2				
MK # 3				

AZ Mark Station	040017A
Geodetic Azimuth	18 18 36
Grid Azimuth	19 47 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL1
Ref Mon # 2	NDS1
Ref Mon # 3	040038

Comments

3-wire elevations based on AHTD GPS# 040057 in Job 090196 ran by S5101 in Sep 05 which is based on NGS K31 in Job 090024 by S5112 in July 05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040059	8/9/2005	AHTD	BENTON	412	001966, 090069

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	211,361.9285	0.0020
Easting (M)	197,432.1933	0.0020
Elevation (M)*	384.204	
Northing (SFT)	693,443.2604	
Easting (SFT)	647,742.1209	
Elevation (SFT)*	1,260.511	

Convergence Angle	-1	18	39.8237079
Scale Factor	0.999996921		
Elevation Adjust. Factor	0.9999397094		
Combined Adjust. Factor	0.9999366306		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	13	3.1664100
Longitude	94	15	11.0693448
Ellipsoid Height:	356.179		
Grid Northing (Meters)	211,361.9280		
Grid Easting (Meters)	197,432.1730		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	36	13	3.1664424	
Longitude	94	15	11.0685348	
Ellipsoid Height (M):	356.083			0.0040
Geoid Height (M):	-28.133			0.0040

Location Description

To reach the station from the Washington and Benton county line on hwy-112 north of Elm Springs, go north on hwy-112 for 0.50 miles to county road 70 also known as "Marchant road"on the left. Go left on Marchant road for 1.40 miles to the station on the right. 6.10 meters west of the center of Marchant road and 1.10 meters east of a witness post. The station mark is a standard 64mm cap stamped "040059 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040059A
Geodetic Azimuth	003 21 26
Grid Azimuth	004 40 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	040130A, 040131, 040117-2
Ref Mon # 2	ARFS, ARFY
Ref Mon # 3	MOA2

Comments

SUPERCEDED POSITION BASED ON REF. STATIONS 720036, 720037, 040050, 040051 & AGRONOMY. SUPERCEDED GPS DERIVED ELEV. IS 1260.5421 US SURVEY FEET BASED ON GEOID HT OF -28.035 METERS
ELEVATION BASED ON DIGITAL LEVELS IN JAN/FEB 2020 BY S5112 FROM PN:45 FROM JOB #090513 FOR JOB #090069

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040059A	8/9/2005	AHTD	BENTON	412	001966, 090069

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	211,664.9766	0.0020
Easting (M)	197,456.9325	0.0020
Elevation (M)*	390.497	
Northing (SFT)	694,437.5107	
Easting (SFT)	647,823.2860	
Elevation (SFT)*	1,281.155	

Convergence Angle	-1	18	39.4090161
Scale Factor			0.999997450
Elevation Adjust. Factor			0.9999387221
Combined Adjust. Factor			0.9999361723

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	13	13.0138932
Longitude	94	15	10.3564152
Ellipsoid Height:			362.464
Grid Northing (Meters)			211,664.9700
Grid Easting (Meters)			197,456.9190

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:	Geoid 12B			
Latitude	36	13	13.0141164	
Longitude	94	15	10.3558824	
Ellipsoid Height (M):			362.379	0.0040
Geoid Height (M):			-28.133	0.0040

Location Description

To reach the station from the Washington and Benton county line on hwy-112 north of Elm Springs,go north on hwy-112 for 0.50 miles to county road 70 also known as "Marchant road" on the left. Go left on Marchant road for 1.20 miles to the station on the right. 11.90 meters east of "trails end ranch road", 8.50 meters north of the center of Marchant road and 0.70 Meters south of a witness post. The station mark is a standard 64mm cap stamped "040059A 2005" set on top of an iron rod 1.22 meters long and is below the ground surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	260	15.10	49.5
MK # 2	Fence corner	280	8.05	26.4
MK # 3	Telephone riser	179	18.85	61.8

AZ Mark Station	040059
Geodetic Azimuth	183 21 26
Grid Azimuth	184 40 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	040130A, 040131, 040117-2
Ref Mon # 2	ARFS, ARFY
Ref Mon # 3	MOA2

Comments

SUPERCEDED POSITION BASED ON REF. STATIONS 720036, 720037, 040050, 040051 & AGRONOMY. SUPERCEDED GPS DERIVED ELEV. IS 1281.1654 US SURVEY FEET BASED ON GEOID HT OF -28.036 METERS
ELEVATION BASED ON DIGITAL LEVELS IN JAN/FEB 2020 BY S5112 FROM PN:45 FROM JOB #090513 FOR JOB #090069

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040061	8/9/2005	AHTD	BENTON	CR70	001966,090286

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	211,885.9979
Easting (M)	202,870.6770
Elevation (M)*	353.555
Northing (SFT)	695,162.6448
Easting (SFT)	665,584.8795
Elevation (SFT)*	1,159.956

Convergence Angle	-1	16	33.4215533
Scale Factor			0.999998050
Elevation Adjust. Factor			0.9999445187
Combined Adjust. Factor			0.9999425688

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	24.1476672
Longitude	94	11	33.8450532
Ellipsoid Height (M):	325.587		
Geoid Height (M):	-28.013		

Location Description

To reach the station from exit 76 (Wagon Wheel road) on I 540 take "Wagon Wheel road" west for 0.90 miles to county road 70 on the left also known as North 56th street. Go left on CR 70 for 0.10 miles to the station on the left at a gravel road junction. 17.70 meters east of the center of CR 70, 7.70 meters south of the center of the gravel road and 0.50 meters north of a witness post. The station mark is a standard 64mm cap stamped "040061 2005" set on top of an iron rod 1.22 meters long and is below the ground surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Gate post	248	22.60	74.1
MK # 2	Wooden corner post	017	16.70	54.8
MK # 3				

AZ Mark Station	040061A
Geodetic Azimuth	191 32 18
Grid Azimuth	192 48 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	720036, 720037, 040050, 04005
Ref Mon # 2	AGRONOMY
Ref Mon # 3	

Comments

ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040061A	8/9/2005	AHTD	BENTON	CR 70	001966,090286

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,585.1189	
Easting (M)	202,802.2390	
Elevation (M)*	359.518	
Northing (SFT)	694,175.5109	
Easting (SFT)	665,360.3458	
Elevation (SFT)*	1,179.518	

Convergence Angle	-1	16	34.8595855
Scale Factor	0.999997521		
Elevation Adjust. Factor	0.9999435831		
Combined Adjust. Factor	0.9999411042		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	14.3391360
Longitude	94	11	36.3163272
Ellipsoid Height (M):	331.560		
Geoid Height (M):	-28.013		

Location Description

To reach the station from exit 76 (Wagon Wheel road) on I 540 take "Wagon Wheel road" west for 0.90 miles to county road 70 on the left also known as North 56th street. Go left on CR 70 for 0.30 miles to the station on the right. 12.0 meters north of a gravel drive, 6.70 meters west of the center of CR 70 and 1.20 meters east of a witness post. The station mark is a standard 64mm cap stamped "040061A 2005" set on top of an iron rod 1.22 meters long and is below the ground surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Corner and gate post	171	10.50	34.4
MK # 2	Gate post	090	12.55	41.2
MK # 3				

AZ Mark Station	040061
Geodetic Azimuth	011 32 17
Grid Azimuth	012 48 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	720036, 720037, 040050, 04005
Ref Mon # 2	AGRONOMY
Ref Mon # 3	

Comments

ELEV WAS EST. BY CREW S5110 FROM TBM 916 FROM JOB 001966 IN FEB 11 DURING JOB 090286.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040063	6/17/2008	AHTD	BENTON	540	090260

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	231,281.0101	
Easting (M)	204,126.1480	
Elevation (M)*	383.944	
Northing (SFT)	758,794.4473	
Easting (SFT)	669,703.8706	
Elevation (SFT)*	1,259.655	

Convergence Angle	-1	16	14.1973193
Scale Factor	1.000036796		
Elevation Adjust. Factor	0.9999397504		
Combined Adjust. Factor	0.9999765442		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	54.1140072
Longitude	94	11	0.8079972
Ellipsoid Height (M):	355.886		
Geoid Height (M):	-28.088		

Location Description

To reach the station from the junction of I 540 & hwy-72 (exit 88) northeast of Bentonville go north on I 540 for 1.30 miles to the station on the right on top of a small hill about 12 feet above the road surface next to the right of way fence. 57.7 feet northeast of the east edge of the northbound lane and 3.40 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "040063 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040063A
Geodetic Azimuth	183 52 17
Grid Azimuth	185 08 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	Bentonville 44
Ref Mon # 3	V 26

Comments

3-wire levels ran by CTS from GPS 040044 & 040044A which were est. by NGS 1st order mark on 08 Aug. 08.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040063A	6/17/2008	AHTD	BENTON	540	090260

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	230,695.3291	
Easting (M)	204,073.4450	
Elevation (M)*	386.669	
Northing (SFT)	756,872.9256	
Easting (SFT)	669,530.9608	
Elevation (SFT)*	1,268.595	

Convergence Angle	-1	16	15.1243516
Scale Factor	1.000035488		
Elevation Adjust. Factor	0.9999393228		
Combined Adjust. Factor	0.9999748086		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	35.0806308
Longitude	94	11	2.4011124
Ellipsoid Height (M):	358.623		
Geoid Height (M):	-28.084		

Location Description

To reach the station from the junction of I 540 & hwy-72 (exit 88) northeast of Bentonville go north on I 540 for 0.90 miles to the station on the left 44.3 feet southwest of the edge of the pavement of the southbound lane by the right of way fence and 4.30 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "040063A 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040063
Geodetic Azimuth	3 52 16
Grid Azimuth	5 08 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	Bentonville 44
Ref Mon # 3	V 26

Comments

3-wire levels ran by CTS from GPS 040044 & 040044A which were est. by NGS 1st order mark on 08 Aug. 08.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040064	3/31/2009	AHTD	Benton	12	040151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	213,109.3020
Easting (M)	230,400.1510
Elevation (M)*	
Northing (SFT)	699,176.1016
Easting (SFT)	755,904.4954
Elevation (SFT)*	
Convergence Angle	-1 5 52.6576703
Scale Factor	1.000001236
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 14 22.3283724
Longitude	93 53 12.6853296
Ellipsoid Height (M):	338.523
Geoid Height (M):	-27.972

Location Description

To reach the station from the junction of highways 12 and 45 just north of Hindsville go west on hwy-12 for 2.60 miles to the station on the right. 32.0 feet north of the center of hwy-12, 25.0 feet east of a field entrance and 6.60 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "040064A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040064A
Geodetic Azimuth	271 29 13
Grid Azimuth	272 35 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040064A	3/31/2009	AHTD	Benton	12	040151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	213,128.5010	
Easting (M)	229,974.9130	
Elevation (M)*		
Northing (SFT)	699,239.0904	
Easting (SFT)	754,509.3604	
Elevation (SFT)*		

Convergence Angle	-1	6	2.5743369
Scale Factor	1.000001256		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	14	22.6864428
Longitude	93	53	29.7272292
Ellipsoid Height (M):	337.679		
Geoid Height (M):	-27.973		

Location Description

To reach the station from the junction of highways 12 and 45 just north of Hindsville go west on hwy-12 for 2.90 miles to the station on the right. 37.0 feet north of the center of hwy-12 4.0 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "040064A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of north end of a culvert	247	53.95	177.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040065	12/2/2009	AHTD	Benton	540	012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,923.7661	
Easting (M)	204,112.4500	
Elevation (M)*	390.026	
Northing (SFT)	737,937.3893	
Easting (SFT)	669,658.9297	
Elevation (SFT)*	1,279.612	

Convergence Angle	-1	16	11.2274942
Scale Factor	1.000023082		
Elevation Adjust. Factor	0.9999387959		
Combined Adjust. Factor	0.9999618765		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	27.9166884
Longitude	94	10	55.7043204
Ellipsoid Height (M):	362.024		
Geoid Height (M):	-28.054		

Location Description

To reach the station from the juncton of I-540 and hwy-62 (exit 86) on the west side of Rogers go south on I-540 for 1.10 miles to the station on the right 0.10 miles south of the Olive street overpass near the right of way fence in front of a auto dealership. 36.6 feet west of the center of the I-540 south bound lane and 3.40 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "040065 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a twin box culvert	52	10.27	33.7
MK # 2	underground telephone cable marker	5	9.78	32.1
MK # 3	Large green electrical box	220	6.10	20.0

AZ Mark Station	040009
Geodetic Azimuth	191 43 50
Grid Azimuth	193 00 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	WWED
Ref Mon # 2	ARFY
Ref Mon # 3	040018, 040044

Comments

Digital Levels ran by crew S5101 in December 2009 from GPS mark 040009 which was based on NGS marks Q 310, J 27, K 310, A 27, L 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040066	6/29/2016	AHTD	BENTON	SR-59	090434

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	224,842.3607	0.0040
Easting (M)	179,271.1939	0.0040
Elevation (M)*		

Northing (SFT)	737,670.3117	
Easting (SFT)	588,158.9087	
Elevation (SFT)*		

Convergence Angle	-1	25	50.6476640
Scale Factor	1.000021701		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	36	20	6.2860668
Longitude	94	27	31.4442036
Ellipsoid Height (M):	352.422	0.0080	
Geoid Height (M):	-28.138	0.0080	

Location Description

FROM JCT OF SR-59 & SR-102 IN DECATUR, GO S ON SR-59 0.05 MI, TURN L & GO E ON CHURCH ST 0.1 MI TO STA ON R, JUST PAST THE CHURCH. 18' S OF C/L OF CHURCH ST. STA IS A 2 1/2" ALUMCAP STAMPED "040066 2016" SET BELLOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE COR OF BRICK CHURCH	251	56.60	185.7
MK # 2	SERVICE POLE	332	42.50	139.4
MK # 3	GAS METER	263	36.70	120.4

AZ Mark Station	040066A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	SAL5

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040066A	6/29/2016	AHTD	BENTON	SR-59	090434

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	224,367.7553	0.0040
Easting (M)	179,292.5619	0.0040
Elevation (M)*		
Northing (SFT)	736,113.2105	
Easting (SFT)	588,229.0135	
Elevation (SFT)*		

Convergence Angle	-1	25	49.8728027
Scale Factor	1.000020727		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	36	19	50.9110644
Longitude	94	27	30.1125960
Ellipsoid Height (M):	358.260	0.0080	
Geoid Height (M):	-28.138	0.0080	

Location Description

FROM JCT OF SR-59 & SR-102 IN DECATUR, GO S ON SR-59 0.4 MI TO STATION ON L JUST N OF "DOLLAR GENERAL". 47.7' E OF C/L SR-59. STA IS A 2 1/2" ALUM CAP STAMPED "040066A 2016" SET BELLOW SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PHONE BOX	340	57.20	187.7
MK # 2	DOLLAR GENERAL SIGN	153	24.00	78.7
MK # 3	LIGHT POLE	121	45.00	147.6

AZ Mark Station	040066
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	SAL5

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040102	1/22/2001	rial Data Servic	BENTON	CR 542	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	234,530.1231	
Easting (M)	189,558.4938	
Elevation (M)*	397.991	
Northing (SFT)	769,454.2455	
Easting (SFT)	621,909.8251	
Elevation (SFT)*	1,305.742	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	25	28.6192848	
Longitude	94	20	48.3305316	
Ellipsoid Height (M):	370.081			
Geoid Height (M):	-28.056			

Convergence Angle	-1	21	56.0761697	
Scale Factor	1.000043418			
Elevation Adjust. Factor	0.9999375461			
Combined Adjust. Factor	0.9999809614			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO LEFT, SOUTH ON STATE HIGHWAY 279 FOR 0.32 KM (0.20 MI) TO THE JUNCTION ON DICKSON ROAD (OLD COUNTY ROAD 542) ON THE RIGHT, GO RIGHT WEST FOR 1.69 KM (1.05 MI) TO THE JUNCTION OF A PIPE LINE AND THE STATION ON THE RIGHT. THE STATION IS A AERIAL DATA SERVICE 37mm CAP STAMPED "102" SET ON TOP OF AN IRON ROD SET FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 409.081 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	184	10.97	36.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	040102A
Geodetic Azimuth	188 40 58.78465
Grid Azimuth	190 02 54.84613

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040102A	1/22/2001	AHTD	BENTON	CR 542	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	234,127.3206	
Easting (M)	189,487.1167	
Elevation (M)*	403.422	
Northing (SFT)	768,132.7177	
Easting (SFT)	621,675.6487	
Elevation (SFT)*	1,323.561	

Convergence Angle	-1	21	57.5186681
Scale Factor	1.000042486		
Elevation Adjust. Factor	0.9999366939		
Combined Adjust. Factor	0.9999791772		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	15.5006004
Longitude	94	20	50.8094808
Ellipsoid Height (M):	375.515		
Geoid Height (M):	-28.052		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE ON STATE HIGHWAY 72 AND STATE HIGHWAY 279 FOR 0.72 KM (0.49 MI) TO THE JUNCTION OF STATE HIGHWAY 279 SOUTH ON THE LEFT AND HIWASSIE ROAD (OLD COUNTY ROAD 468) ON THE RIGHT, GO SOUTH, ON STATE HIGHWAY 279 FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF DICKSON ROAD (OLD COUNTY ROAD 542) ON THE RIGHT, GO RIGHT WEST ON DICKSON ROAD FOR 2.10 KM (1.30 MI) TO THE JUNCTION OF A GRAVEL DRIVEWAY AND THE STATION ON THE LEFT. THE STATION IS A STANDARD 64mm CAP STAMPED "040102A 2001" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 409.081 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	303	2.07	6.8
MK # 2	CORNER POST	185	11.10	36.4
MK # 3	TELEPHONE JUNCTION BOX	230	12.60	41.3

AZ Mark Station	040102
Geodetic Azimuth	8 40 57.312801
Grid Azimuth	10 02 54.846132

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040103	10/4/2010	AHTD	BENTON	16	090282

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	202,848.1159	
Easting (M)	176,892.9130	
Elevation (M)*	336.139	
Northing (SFT)	665,510.8602	
Easting (SFT)	580,356.1654	
Elevation (SFT)*	1,102.816	

Convergence Angle	-1	26	33.2017966
Scale Factor	0.999982277		
Elevation Adjust. Factor	0.9999472516		
Combined Adjust. Factor	0.9999295295		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	11.0142852
Longitude	94	28	44.5739448
Ellipsoid Height (M):	307.919		
Geoid Height (M):	-28.223		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 16, IN SILOAM SPRINGS, GO EAST ON 16 FOR 4.3 MILES TO THE MARK ON THE RIGHT, WEST 37 FEET OF THE CENTERLINE OF THE HIGHWAY. IT IS 65 FEET NORTH OF A GRAVEL DRIVE. IT IS 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040103 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16" CHERRY TREE	152	14.20	46.6
MK # 2	PP WITH GY	267	4.51	14.8
MK # 3				

AZ Mark Station	3 SEM 1968
Geodetic Azimuth	131 42 25
Grid Azimuth	133 08 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	OKTU
Ref Mon # 2	WWED
Ref Mon # 3	CTA1

Comments

ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 3 SEM 1968 AND CHECKED USING CHSLD SQ ON THE N/W COR. OF BRIDGE OVER THE ILLINOIS RIVER. CREW S5112 ON 10-5-2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040104	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	215,477.1559	0.0015
Easting (M)	209,564.1122	0.0013
Elevation (M)*	412.717	

Northing (SFT)	706,944.6356	
Easting (SFT)	687,544.9248	
Elevation (SFT)*	1,354.057	

Convergence Angle	-1	13	59.3037330
Scale Factor	1.000004778		
Elevation Adjust. Factor	0.9999352354		
Combined Adjust. Factor	0.9999400131		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	15	25.3823724
Longitude	94	7	8.9918976
Ellipsoid Height (M):	384.659	0.0031	
Geoid Height (M):	-28.068	0.0031	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, IN LOWELL, GO NORTH ON 71B 0.25 MILES TO MCCLURE AVE AND TURN RIGHT (EAST) AND GO 1.0 MILE TO THE STATION MARK ON THE RIGHT, SOUTH 46 FEET OF THE CENTERLINE OF THE STREET AND 17.5 FEET WEST OF AN ASPHAULT DRIVE TO THE PARK. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040104 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	79	38.40	126.0
MK # 2	COMBINATION POLE	24	21.64	71.0
MK # 3				

AZ Mark Station	040104A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3RD ORDER Combination of 3-Wire & Digital Levels ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040104A	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	215,529.9604	
Easting (M)	209,023.4980	
Elevation (M)*	416.101	
Northing (SFT)	707,117.8784	
Easting (SFT)	685,771.2597	
Elevation (SFT)*	1,365.157	

Convergence Angle	-1	14	11.9287974
Scale Factor	1.000004854		
Elevation Adjust. Factor	0.9999347045		
Combined Adjust. Factor	0.9999395582		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	15	26.7171156
Longitude	94	7	30.6882084
Ellipsoid Height (M):	388.038		
Geoid Height (M):	-28.069		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 71B, IN LOWELL, GO NORTH ON 71B 0.25 MILES TO MCCLURE AVE AND TURN RIGHT (EAST) AND GO 0.6 MILES TO THE STATION MARK ON THE LEFT, NORTH 18.7 FEET OF THE CENTERLINE OF THE STREET, 7.3 FEET SOUTH OF A 6 FOOT WOOD FENCE, 2.0 SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040104A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH A GUY	295	6.34	20.8
MK # 2				
MK # 3				

AZ Mark Station	040104
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3RD ORDER Combination of 3-Wire & Digital Levels ran from NGS J 309 and V 26 by CTA & S5112 in Job 012126-Eastern North-South Corridor (Fayetteville-Rogers)P.E. in March 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040105	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,331.0247	
Easting (M)	212,389.6242	
Elevation (M)*	347.512	
Northing (SFT)	716,307.7035	
Easting (SFT)	696,814.9587	
Elevation (SFT)*	1,140.130	

Convergence Angle	-1	12	54.8681642
Scale Factor	1.000010265		
Elevation Adjust. Factor	0.9999454670		
Combined Adjust. Factor	0.9999557314		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	16	59.9068956
Longitude	94	5	18.2586696
Ellipsoid Height (M):	319.449		
Geoid Height (M):	-28.086		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71B AND STATE HIGHWAY 94, IN ROGERS, GO SOUTH ON STATE HIGHWAY 71B 2.0 MILES AND TURN LEFT (EAST) ON PLEASANT GROVE ROAD AND GO 0.15 MILES AND TURN RIGHT (SOUTH) ON HONEYSUCKLE STREET AND GO 0.6 MILES AND TURN LEFT ONTO DOGWOOD AVE AND GO 0.8 MILES TO A CROSS ROAD AND CONTINUE ON STRAIGHT, ON CROSS HOLLOW ROAD 1.5 MILES TO A T INTERSECTION AND TURN LEFT ON STONEY POINT ROAD AND GO 0.1 MILES TO THE STATION MARK ON THE RIGHT, 17 FEET NORTHEAST OF THE CENTERLINE OF THE ROAD, AND SOUTHWEST 29 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040105A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040105A	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,581.7837	
Easting (M)	212,161.9462	
Elevation (M)*	351.951	
Northing (SFT)	717,130.4020	
Easting (SFT)	696,067.9852	
Elevation (SFT)*	1,154.691	

Convergence Angle	-1	13	0.2999296
Scale Factor			1.000010738
Elevation Adjust. Factor			0.9999447705
Combined Adjust. Factor			0.9999555079

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	17	7.8835704
Longitude	94	5	27.5932176
Ellipsoid Height (M):	323.889		
Geoid Height (M):	-28.088		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71B AND STATE HIGHWAY 94, IN ROGERS, GO SOUTH ON STATE HIGHWAY 71B 2.0 MILES AND TURN LEFT (EAST) ON PLEASANT GROVE ROAD AND GO 0.15 MILES AND TURN RIGHT (SOUTH) ON HONEYSUCKLE STREET AND GO 0.6 MILES AND TURN LEFT ONTO DOGWOOD AVE AND GO 0.8 MILES TO A CROSS ROAD AND CONTINUE ON STRAIGHT, ON CROSS HOLLOW ROAD 1.5 MILES TO A T INTERSECTION AND TURN LEFT ON STONEY POINT ROAD AND GO 0.3 MILES TO THE STATION MARK ON THE RIGHT, 22.6 FEET NORTHEAST OF THE CENTERLINE OF THE ROAD, AND SOUTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040105
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040106	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,326.3144	
Easting (M)	209,144.4199	
Elevation (M)*	406.529	
Northing (SFT)	716,292.2498	
Easting (SFT)	686,167.9843	
Elevation (SFT)*	1,333.755	

Convergence Angle	-1	14	10.5171140
Scale Factor	1.000010123		
Elevation Adjust. Factor	0.9999362064		
Combined Adjust. Factor	0.9999463287		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	16	57.5019408
Longitude	94	7	28.2622152
Ellipsoid Height (M):	378.441		
Geoid Height (M):	-28.084		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 71B, IN ROGERS, GO SOUTH ON 71B 2.0 MILES AND TURN LEFT (EAST) ON EAST PLEASANT GROVE ROAD AND GO 0.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 36.5 FEET OF THE CENTERLINE OF THE STREET, 10.3 FEET NORTH OF THE NORTH EDGE OF THE THE SIDE WALK AND SOUTH 3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	270	30.17	99.0
MK # 2	COMBINATION POLE W/LIGHT	95	34.75	114.0
MK # 3				

AZ Mark Station	040106A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040106A	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,283.5707	
Easting (M)	209,603.3720	
Elevation (M)*	409.580	
Northing (SFT)	716,152.0149	
Easting (SFT)	687,673.7296	
Elevation (SFT)*	1,343.762	

Convergence Angle	-1	13	59.7967759
Scale Factor	1.000010060		
Elevation Adjust. Factor	0.9999357278		
Combined Adjust. Factor	0.9999457871		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	16	56.4364056
Longitude	94	7	9.8391972
Ellipsoid Height (M):	381.491		
Geoid Height (M):	-28.084		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 71B, IN ROGERS, GO SOUTH ON 71B 2.0 MILES AND TURN LEFT (EAST) ON EAST PLEASANT GROVE ROAD AND GO 0.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 30.7 FEET OF THE CENTERLINE OF THE STREET, 4 FEET SOUTH OF THE SOUTH EDGE OF THE THE SIDE WALK, WEST 42 FEET OF A GRAVEL DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040105A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT AND A GUY	73	18.59	61.0
MK # 2	GUY POLE W/2 GUYS	107	19.72	64.7
MK # 3	TELEPHONE BOX	121	10.51	34.5

AZ Mark Station	040106
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER COMBINATION OF 3-WIRE & DIGITAL LEVELS FROM NGS L 309 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040107	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	221,518.3103	
Easting (M)	209,776.7942	
Elevation (M)*	412.445	
Northing (SFT)	726,764.6564	
Easting (SFT)	688,242.6990	
Elevation (SFT)*	1,353.165	

Convergence Angle	-1	13	57.3765208
Scale Factor	1.000016395		
Elevation Adjust. Factor	0.9999352781		
Combined Adjust. Factor	0.9999516720		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	18	41.4758052
Longitude	94	7	5.6799624
Ellipsoid Height (M):	384.340		
Geoid Height (M):	-28.097		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON 94 0.45 MILES TO MARK ON THE LEFT. 5.2 FEET SOUTH OF SOUTH EDGE OF SIDEWALK, 251 FEET WEST OF THE CENTERLINE OF 1ST STREET.35.0 FEET NORTH OF THE CENTERLINE OF HIGHWAY 94. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040107 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040107A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040107A	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	221,555.3187	
Easting (M)	209,294.2012	
Elevation (M)*	405.796	
Northing (SFT)	726,886.0748	
Easting (SFT)	686,659.3918	
Elevation (SFT)*	1,331.350	

Convergence Angle	-1	14	8.6491983
Scale Factor	1.000016449		
Elevation Adjust. Factor	0.9999363214		
Combined Adjust. Factor	0.9999527693		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	18	42.3389448
Longitude	94	7	25.0521816
Ellipsoid Height (M):	377.693		
Geoid Height (M):	-28.097		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON 94 0.15 MILES TO MARK ON THE LEFT. 61.3 FEET EAST OF WALMART DRIVEWAY (ASPHALT), 12.8 FEET NORTH OF NORTH EDGE SIDEWALK, 55.5 FEET NORTH OF CENTERLINE OF HWY 94. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040107A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WALMART SIGH POST	319	15.39	50.5
MK # 2	HEADWALL	87	11.09	36.4
MK # 3				

AZ Mark Station	040107
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040108	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	221,422.2675	
Easting (M)	212,489.0491	
Elevation (M)*	420.616	
Northing (SFT)	726,449.5560	
Easting (SFT)	697,141.1553	
Elevation (SFT)*	1,379.973	

Convergence Angle	-1	12	54.0787836
Scale Factor	1.000016319		
Elevation Adjust. Factor	0.9999339959		
Combined Adjust. Factor	0.9999503138		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	18	40.2399936
Longitude	94	5	16.9021104
Ellipsoid Height (M):	392.502		
Geoid Height (M):	-28.101		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON HIGHWAY 94 2.05 MILES TO BLUE HILL ROAD AND TURN LEFT AND GO 0.1 MILES TO THE MARK ON LEFT. 21.0 FEET SOUTHWEST FROM THE CENTERLINE OF BLUE HILL ROAD.THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040108 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF GATE	61	21.03	69.0
MK # 2	POWER POLE	46	11.89	39.0
MK # 3	FENCE CORNER	81	18.10	59.4

AZ Mark Station	040108A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040108-1	5/9/2022	AHTD (S5101)	Benton	I - 49	090646

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	225,889.7240	0.0018
Easting (M)	204,329.9895	0.0018
Elevation (M)*	395.816	0.0048
Northing (SFT)	741,106.5362	
Easting (SFT)	670,372.6406	
Elevation (SFT)*	1,298.605	

Convergence Angle	-1	16	6.6516394
Scale Factor	1.000025111		
Elevation Adjust. Factor	0.9999378875		
Combined Adjust. Factor	0.9999629969		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	20	59.4026880
Longitude	94	10	47.8406640
Ellipsoid Height (M):	367.638		0.0064
Geoid Height (M):	-28.157		

Location Description

TO REACH FROM THE INTERSECTION OF INTERSTATE 49 AND US HWY 62 AND STATE HWY 102 (EXIT 86) IN BENTONVILLE, BENTON COUNTY ARKANSAS, TRAVEL SOUTH ALOUNG INTERSTATE 49 FOR 0.46 MILES TO THE STATION ON THE RIGHT. THE STATION IS 283 FEET(86.26M)WEST OF THE CL OF INTERSTATE 49 NEAR THE TOP OF THE EMBANKMENT. THE STATION IS A STANDARD 2 1/2 INCH ALUMINUM ARDOT GPS CAP STAMPED 040108, 2022, SET JUST BELOW THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SIGN OVER INTERSTATE	102	15.85	52.0
MK # 2	METAL LIGHT POLE WITH CONC. BASE	332	13.11	43.0
MK # 3	SANITARY SEWER MANHOLE	202	21.65	71.0

AZ Mark Station	040108A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

IN FRONT (EAST) OF SOUTHERN MOST BUILDING OF LAKESIDE CENTER OFFICE COMPLEX, 4 FT (1.22M) EAST OF THE R/W FENCE AND 10 FT (3.05M) EAST OF THE BACK OF PARKING LOT CURB. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040108A	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	221,453.8960	
Easting (M)	212,000.8697	
Elevation (M)*	422.825	
Northing (SFT)	726,553.3238	
Easting (SFT)	695,539.5200	
Elevation (SFT)*	1,387.219	

Convergence Angle	-1	13	5.4788292
Scale Factor	1.000016362		
Elevation Adjust. Factor	0.9999336494		
Combined Adjust. Factor	0.9999500103		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	18	40.9295952
Longitude	94	5	36.4932132
Ellipsoid Height (M):	394.711		
Geoid Height (M):	-28.100		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 94 (EAST NEW HOPE ROAD) AND STATE HIGHWAY 71B (SOUTH 8TH STREET), IN ROGERS, GO EAST ON HIGHWAY 94 1.85 MILES TO THE MARK ON LEFT. 17.0 FEET NORTH FROM THE CENTERLINE OF HIGHWAY 94.THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040108A 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	81	12.71	41.7
MK # 2	GAS METER	66	18.51	60.7
MK # 3	GAS METER	293	15.15	49.7

AZ Mark Station	040108
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS M 309 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040108A-1	5/9/2022	AHTD (S5101)	Benton	I - 49	090646

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	226,580.0314	0.0016
Easting (M)	204,520.0914	0.0017
Elevation (M)*	403.278	0.0046
Northing (SFT)	743,371.3197	
Easting (SFT)	670,996.3332	
Elevation (SFT)*	1,323.089	

Convergence Angle	-1	16	2.5726987
Scale Factor	1.000026577		
Elevation Adjust. Factor	0.9999367165		
Combined Adjust. Factor	0.9999632918		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	21	21.9283920
Longitude	94	10	40.8309600
Ellipsoid Height (M):	375.092		0.0064
Geoid Height (M):	-28.160		

Location Description

AT THE INTERSECTION OF INTERSTATE 49 AND US HWY 62 AND STATE HWY 102 (EXIT 86) IN BENTONVILLE, BENTON COUNTY ARKANSAS, THE STATION IS 73 FEET EAST OF THE CL OF INTERSTATE 49 ON THE TOP OF THE EMBANKMENT NEAR THE SOUTHEAST CORNER OF THE NORTH BOUND BRIDGE. THE STATION IS A STANDARD 2 1/2 INCH ALUMINUM ARDOT GPS CAP STAMPED 040108A 2022, SET JUST BELOW THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEST BRIDGE CORNER	13	3.35	11.0
MK # 2	SOUTH END OF BRIDGE ABUTTMENT	302	1.22	4.0
MK # 3	NORTHEAST CORNER OD DROP INLET	234	7.31	24.0

AZ Mark Station	40108
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

JUST OFF THE SOUTHEAST CORNER OF THE NORTH BOUND BRIDGE AT EXIT 86, LOG MILE 540-5 85.8 ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040109	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	225,072.7619	
Easting (M)	212,603.1862	
Elevation (M)*	348.801	
Northing (SFT)	738,426.2197	
Easting (SFT)	697,515.6201	
Elevation (SFT)*	1,144.358	

Convergence Angle	-1	12	53.2222886
Scale Factor	1.000023775		
Elevation Adjust. Factor	0.9999452647		
Combined Adjust. Factor	0.9999690384		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	20	38.7211740
Longitude	94	5	15.4302144
Ellipsoid Height (M):	320.657		
Geoid Height (M):	-28.116		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 62B AND STATE HIGHWAY 12 (EAST LOCUST STREET), IN ROGERS, GO EAST ON HIGHWAY 12 1.95 MILES TO THE MARK ON LEFT,38.0 FEET WEST OF CENTER OF ASPHALT DRIVEWAY, 133.0 FEET EAST OF CENTER OF ASPHALT DRIVEWAY, 29.0 FEET NORTH FROM THE CENTERLINE OF HIGHWAY 12.THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040109 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	87	25.49	83.6
MK # 2				
MK # 3				

AZ Mark Station	040109A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040109-1	5/10/2022	AHTD (S5101)	Benton	71B	090646

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	225,677.0562	0.0017
Easting (M)	201,566.7660	0.0017
Elevation (M)*	396.215	0.0024
Northing (SFT)	740,408.8085	
Easting (SFT)	661,306.9648	
Elevation (SFT)*	1,299.915	

Convergence Angle	-1	17	11.0082957
Scale Factor	1.000024535		
Elevation Adjust. Factor	0.9999378248		
Combined Adjust. Factor	0.9999623583		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	20	50.5065840	
Longitude	94	12	38.4382800	
Ellipsoid Height (M):	368.033			0.0065
Geoid Height (M):	-28.151			

Location Description

THE INTERSECTION OF US HIGHWAY 71B AND STATE HWY 102 IN BENTONVILLE, BENTON COUNTY ARKANSAS, THAVEL SOUTH ALOUNG STATE HWY 71B 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 42 FEET (12.80) EAST OF THE CL OF STATE HIGHWAY 71B . THE STATION IS A STANDARD 2 1/2 INCH ALUMINUM ARDOT GPS CAP STAMPED 040109, 2022 SET JUST BELOW THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	0	35.05	115.0
MK # 2	COMBINATION POLE	176	25.60	84.0
MK # 3	LIGHT POLE	79	25.91	85.0

AZ Mark Station	040109A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

40 FT (12.19M) SOUTH OF THE CENTERLINE OF THE NORTH ENTRANCE TO KIMBERLY PLAZA (STRIP MALL), 5 FT (1.52M) EAST OF THE BACK OF SIDEWALK, 11 FT (3.35M) WEST OF THE BACK OF PARKING LOT CURB. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040109A	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	225,074.4985	
Easting (M)	212,096.2040	
Elevation (M)*	361.718	
Northing (SFT)	738,431.9172	
Easting (SFT)	695,852.2960	
Elevation (SFT)*	1,186.737	

Convergence Angle	-1	13	5.0508792
Scale Factor	1.000023756		
Elevation Adjust. Factor	0.9999432379		
Combined Adjust. Factor	0.9999669925		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	20	38.4283392
Longitude	94	5	35.7577764
Ellipsoid Height (M):	333.564		
Geoid Height (M):	-28.115		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 62B (NORTH 2ND STREET) AND STATE HIGHWAY 12 (EAST LOCUST STREET), IN ROGERS, GO EAST ON HIGHWAY 12 1.65 MILES TO THE MARK ON LEFT, 40.5 FEET NORTH OF CENTER OF HIGHWAY 12, EAST 23 FEET OF THE CENTERLINE OF PRAIRIE CREEK ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040109A 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	67	7.77	25.5
MK # 2	GUY WIRE	44	5.67	18.6
MK # 3				

AZ Mark Station	040109
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040109A-1	5/10/2022	AHTD (S5101)	Benton	71B	090646

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	226,400.6340	0.0016
Easting (M)	201,579.0898	0.0017
Elevation (M)*	394.557	0.0059
Northing (SFT)	742,782.7467	
Easting (SFT)	661,347.3971	
Elevation (SFT)*	1,294.474	

Convergence Angle	-1	17	11.0998610
Scale Factor	1.000026058		
Elevation Adjust. Factor	0.9999380851		
Combined Adjust. Factor	0.9999641414		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	21	13.9837320
Longitude	94	12	38.5956360
Ellipsoid Height (M):	366.375		0.0064
Geoid Height (M):	-28.153		

Location Description

FROM THE INTERSECTION OF US HIGHWAY 71B AND STATE HWY 102 IN BENTONVILLE, BENTON COUNTY ARKANSAS, THAVEL SOUTH ALOUNG STATE HWY 71B 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 65 FEET (19.81M) EAST OF THE CL OF STATE HIGHWAY 71B AND 125 FEET (38.10M) SOUTH OF THE CENTERLINE OF A STREET . THE STATION IS A STANDARD 2 1/2 INCH ALUMINUM ARDOT GPS CAP STAMPED 040109, 2022 SET JUST BELOW THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	215	8.53	28.0
MK # 2	POWER POLE	140	21.34	70.0
MK # 3	GAS METER	64	18.29	60.0

AZ Mark Station	40109
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

17 FT (5.18M) SOUTH OF THE BACK OF SIDEWALK. ELEV EST. BY DIGITAL LEVEL RUN FROM NGS BM R 26 DURING JOB 090646 BY CREW S5101 IN MAY 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040110	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,757.5100	
Easting (M)	209,733.4045	
Elevation (M)*	409.771	
Northing (SFT)	737,391.9307	
Easting (SFT)	688,100.3446	
Elevation (SFT)*	1,344.392	

Convergence Angle	-1	14	0.0146390
Scale Factor	1.000022991		
Elevation Adjust. Factor	0.9999356976		
Combined Adjust. Factor	0.9999586872		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	20	26.5073244
Longitude	94	7	10.2135972
Ellipsoid Height (M):	381.641		
Geoid Height (M):	-28.110		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAYS 94,71B, 12 EAST AND 62B (WALNUT STREET) IN ROGERS, GO EAST ON HIGHWAY 62B (WALNUT STREET) 0.3 MILES TO NORTH 4TH STREET,TURN LEFT (NORTH) AND GO 0.5 MILES TO WEST OLIVE STREET, TURN LEFT (WEST) AND GO SOUTH 0.6 MILES TO THE MARK ON RIGHT, 21.5 FEET NORTH OF CENTER OF NORTH OLIVE STREET.THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040110 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	284	8.59	28.2
MK # 2				
MK # 3				

AZ Mark Station	040110A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040110A	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,772.8675	
Easting (M)	209,209.3389	
Elevation (M)*	405.971	
Northing (SFT)	737,442.3161	
Easting (SFT)	686,380.9727	
Elevation (SFT)*	1,331.923	

Convergence Angle	-1	14	12.2480463
Scale Factor	1.000023000		
Elevation Adjust. Factor	0.9999362940		
Combined Adjust. Factor	0.9999592925		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	20	26.6389836
Longitude	94	7	31.2368412
Ellipsoid Height (M):	377.834		
Geoid Height (M):	-28.110		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAYS 94,71B, 12 EAST AND 62B (WALNUT STREET) IN ROGERS, GO EAST ON HIGHWAY 62B (WALNUT STREET) 0.3 MILES TO NORTH 4TH STREET,TURN LEFT (NORTH) AND GO 0.5 MILES TO WEST OLIVE STREET, TURN LEFT (WEST) AND GO SOUTH 0.3 MILES TO THE MARK ON LEFT IN SOUTH EAST CORNER OF INTERSECTION, 62.5 FEET EAST OF CENTER OF HIGHWAY 94 (NORTH 8TH STREET) ,33.5 FEET SOUTH OF WEST OLIVE STREET, 20.2 FEET WEST OF THE CENTER LINE OF AN ASPHALT DRIVE.THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040110A 2012" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	255	2.19	7.2
MK # 2	ONE STORY BRICK FRAME	123	21.49	70.5
MK # 3	LIGHT POLE	205	2.83	9.3

AZ Mark Station	040110
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS N 309 AND NGS ROGERS 2 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040111	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	227,611.9382	
Easting (M)	211,145.6516	
Elevation (M)*	415.715	
Northing (SFT)	746,756.8339	
Easting (SFT)	692,733.6920	
Elevation (SFT)*	1,363.893	

Convergence Angle	-1	13	28.4922985
Scale Factor	1.000029087		
Elevation Adjust. Factor	0.9999347650		
Combined Adjust. Factor	0.9999638501		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	See Comments		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	36	22	0.0710292
Longitude	94	6	16.0421112
Ellipsoid Height (M):	387.570		
Geoid Height (M):	-28.124		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAYS 62,94 AND12 , IN ROGERS, GO EAST ON HIGHWAY 62 FOR 1.1 MILES TO NORTH ARKANSAS STREET, TURN RIGHT(EAST), CROSS THE RAIL ROAD TRACKS,TURN RIGHT (SOUTH) AND GO 0.1 MILES TO THE MARK ON RIGHT, EAST 26.5 FEET OF THE NEAREST RAIL, 28.2 FEET WEST OF CENTER OF THE STREET, WEST 50.0 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040111 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	37	18.53	60.8
MK # 2	FENCE CORNER	91	17.59	57.7
MK # 3				

AZ Mark Station	040110A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040111A	2/9/2012	AHTD	BENTON	N/A	012153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	227,210.0759	
Easting (M)	210,854.3807	
Elevation (M)*	414.767	
Northing (SFT)	745,438.3907	
Easting (SFT)	691,778.0807	
Elevation (SFT)*	1,360.781	

Vertical Determined By:	See Comments			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	36	21	46.8348984	
Longitude	94	6	27.3780900	
Ellipsoid Height (M):	386.611			
Geoid Height (M):	-28.122			

Convergence Angle	-1	13	35.0886947	
Scale Factor	1.000028212			
Elevation Adjust. Factor	0.9999349138			
Combined Adjust. Factor	0.9999631240			

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAYS 62,94 AND12 , IN ROGERS, GO EAST ON HIGHWAY 62 FOR 1.1 MILES TO NORTH ARKANSAS STREET, TURN RIGHT AND CROSS THE RAIL ROAD TRACKS TURN RIGHT (SOUTH) AND GO 0.35 MILES TO THE MARK ON LEFT, 24 FEET EAST OF CENTER OF THE STREET, WEST 1.50 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040111A 2012" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	18	14.02	46.0
MK # 2	COMBINATION POLE	353	27.03	88.7
MK # 3				

AZ Mark Station	040111
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS FROM NGS R 26 BY CTA IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040112	7/29/2013	AHTD	BENTON	RDOCK	090347,090402

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,657.0774	0.0030
Easting (M)	198,351.1776	0.0030
Elevation (M)*	380.254	

Northing (SFT)	714,096.5948	
Easting (SFT)	650,757.1552	
Elevation (SFT)*	1,247.549	

Convergence Angle	-1	18	21.7617165
Scale Factor			1.000008391
Elevation Adjust. Factor			0.9999403293
Combined Adjust. Factor			0.9999487198

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	36	16	28.0275420
Longitude	94	14	40.0288056
Ellipsoid Height (M):	352.215		0.0067
Geoid Height (M):	-28.039		0.0000

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHNWAY 264 (HEALING SPRINGS RD) AND STATE HIGHWAY 112 (N MAIN STREET), IN CAVE SPRINGS, GO EAST ON HIGHWAY 264 0.85 MILES TO MURDOCK ROAD AND TURN RIGHT (NORTH) AND GO 0.75 MILES TO THE MARK ON THE RIGHT, SOUTH 18 FEET OF THE CENTERLINE OF THE ROAD AND NORTH 3.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040112 2013" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GATE POST	138	1.74	5.7
MK # 2	TELEPHONE RISER	96	6.49	21.3
MK # 3				

AZ Mark Station	040112A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL5
Ref Mon # 2	MOCA
Ref Mon # 3	ARHR

Comments

Elevation by S5112 in August of 2013 for job #'s 090347 & 090402 using digital levels from AHTD GPS #040049A. Elevation on GPS #040049A based on 3-Wire levels by B&F Engineering from NGS 1st Order BM's V 26 & J 309 for Job #001966 (Springdale Bypass) in November of 2004. S5112 checked into USGS 3rd Order BM's "12 CLC 1968" & "UE 11 B" as a check and missed "12 CLC 1968" by +0.01' & "UE 11 B" by -0.006'. **Note:Elevation from Digital levels used as a constraint in the final static adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040112A	7/29/2013	AHTD	BENTON	RDOCK	090347,090402

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,117.3805	0.0020
Easting (M)	198,136.7856	0.0020
Elevation (M)*	374.524	
Northing (SFT)	712,325.9392	
Easting (SFT)	650,053.7708	
Elevation (SFT)*	1,228.752	

Convergence Angle	-1	18	26.4717875
Scale Factor	1.000007363		
Elevation Adjust. Factor	0.9999412284		
Combined Adjust. Factor	0.9999485909		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	36	16	10.3642680	
Longitude	94	14	48.1231140	
Ellipsoid Height (M):	346.486			0.0065
Geoid Height (M):	-28.039			0.0000

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHNWAY 264 (HEALING SPRINGS RD) AND STATE HIGHWAY 112 (N MAIN STREET), IN CAVE SPRINGS, GO EAST ON HIGHWAY 264 0.85 MILES TO MURDOCK ROAD AND TURN RIGHT (NORTH) AND GO 0.2 MILES TO THE MARK ON THE RIGHT, 31.5 FEET EAST OF THE CENTERLINE OF THE ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "040112A 2013" ON TOP OF A 1 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	77	11.86	38.9
MK # 2				
MK # 3				

AZ Mark Station	40112
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL5
Ref Mon # 2	MOCA
Ref Mon # 3	ARHR

Comments

Elevation by S5112 in August of 2013 for job #'s 090347 & 090402 using digital levels from AHTD GPS #040049A. Elevation on GPS #040049A based on 3-Wire levels by B&F Engineering from NGS 1st Order BM's V 26 & J 309 for Job #001966 (Springdale Bypass) in November of 2004. S5112 checked into USGS 3rd Order BM's "12 CLC 1968" & "UE 11 B" as a check and missed "12 CLC 1968" by +0.01' & "UE 11 B" by -0.006'. **Note:Elevation from Digital levels used as a constraint in the final static adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040113	7/24/2014	AHTD	BENTON	CR58	BR0405

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	208,210.2117	0.0040
Easting (M)	189,673.9862	0.0040
Elevation (M)*		

Northing (SFT)	683,103.0029	
Easting (SFT)	622,288.7364	
Elevation (SFT)*		

Convergence Angle	-1	21	38.7792107
Scale Factor	0.999991268		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	36	11	15.0732456
Longitude	94	20	18.6055188
Ellipsoid Height (M):	293.852	0.0080	
Geoid Height (M):	-28.189	0.0080	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, WEST OF SPRIONGDALE, GO WEST ON 412 FOR 4.1 MILES TO OLD HIGHWAY 68 (COUNTY ROAD 58) ON THE RIGHT, TURN RIGHT AND GO 2.9 MILES TO THE MARK ON THE RIGHT, 33.7 FEET NORTHWEST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 040113" ON TOPO OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	24	11.46	37.6
MK # 2	SERVICE POLE	313	16.15	53.0
MK # 3	30" CATALPA TREE	261	16.55	54.3

AZ Mark Station	720061
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040114	11/18/2015	AHTD	BENTON	94	O109D22,090431

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	233,086.0797	0.0020
Easting (M)	209,842.7256	0.0020
Elevation (M)*		

Northing (SFT)	764,716.5798	
Easting (SFT)	688,459.0089	
Elevation (SFT)*		

Convergence Angle	-1	14	1.6488421
Scale Factor			1.000041158
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	36	24	56.7109008
Longitude	94	7	13.0219932
Ellipsoid Height (M):	326.907		0.0100
Geoid Height (M):	-28.181		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 72, SOUTH OF PEA RIDGE, GO SOUTH ON HIGHWAY 94 FOR 1.8 MILES TO THE MARK ON THE RIGHT, WEST 21.5 FEET OF THE CENTERLINE OF THE HIGHWAY, EAST 39.9 FEET OF A 2 RAIL WOOD FENCE AND SOUTH 69.7 FEET OF THE CENTERLINE OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040114" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040114A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	CTA1

Comments

S5112 PERFORMED SIMULTANEOUS STATIC SESSIONS ON AHTD GPS #'s 040114, 040114A & NGS 1ST ORDER BM V 26 IN NOV. 2015. FINAL GPS ELEVATIONS WERE DERIVED FROM CONSTRAINING ORHTOMETRIC HTS. ON CORS ARFY, ARHR & ON NGS BM V 26.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040114A	11/18/2015	AHTD	BENTON	94	O109D22,090431

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	233,752.9754	0.0020
Easting (M)	209,956.8570	0.0020
Elevation (M)*		
Northing (SFT)	766,904.5535	
Easting (SFT)	688,833.4550	
Elevation (SFT)*		

Convergence Angle	-1	13	59.3190191
Scale Factor	1.000042693		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	36	25	18.4202076
Longitude	94	7	9.0181668
Ellipsoid Height (M):	320.411	0.0100	
Geoid Height (M):	-28.186	0.0100	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 94 AND STATE HIGHWAY 72, SOUTH OF PEA RIDGE, GO SOUTH ON HIGHWAY 94 FOR 1.4 MILES TO THE MARK ON THE RIGHT, WEST 23.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 40 FEET OF THE CENTERLINE OF SUGAR CREEK ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040114A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PIPE FENCE CORNER	319	26.90	88.3
MK # 2				
MK # 3				

AZ Mark Station	040114
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	CTA1

Comments

S5112 PERFORMED SIMULTANEOUS STATIC SESSIONS ON AHTD GPS #'s 040114, 040114A & NGS 1ST ORDER BM V 26 IN NOV. 2015. FINAL GPS ELEVATIONS WERE DERIVED FROM CONSTRAINING ORHTOMETRIC HTS. ON CORS ARFY, ARHR & ON NGS BM V 26.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040115	12/29/2015	AHTD	BENTON	59	10D09, B191, 090434

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	226,715.1147	0.0030
Easting (M)	180,514.0597	0.0030
Elevation (M)*		
Northing (SFT)	743,814.5055	
Easting (SFT)	592,236.5442	
Elevation (SFT)*		

Convergence Angle	-1	25	22.7427821
Scale Factor	1.000025671		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12A	
Latitude	36 21 8.0267256	
Longitude	94 26 43.4893596	
Ellipsoid Height (M):	331.667	0.0050
Geoid Height (M):	-28.122	0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59N AND STATE HIGHWAY 102W, IN DECATURE, GO NORTH ON STATE HIGHWAY 59 FOR 1. 3 MILES TO THE MARK ON THE RIGHT, EAST 30.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 12.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040115" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDERGROUND CABLE MARKER	210	58.20	190.9
MK # 2				
MK # 3				

AZ Mark Station	040115A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	SAL5

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040115A	12/29/2015	AHTD	BENTON	59	10D09, B191, 090434

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	227,151.6008	0.0030
Easting (M)	180,875.2377	0.0030
Elevation (M)*		

Northing (SFT)	745,246.5436	
Easting (SFT)	593,421.5090	
Elevation (SFT)*		

Convergence Angle	-1	25	14.5690010
Scale Factor	1.000026613		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	36	21	22.4734356
Longitude	94	26	29.4426276
Ellipsoid Height (M):	334.270		0.0050
Geoid Height (M):	-28.117		0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59N AND STATE HIGHWAY 102W, IN DECATURE, GO NORTH ON STATE HIGHWAY 59 FOR 1. 65 MILES TO THE MARK ON THE RIGHT, EAST 22.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 15.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 040115A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	160	22.50	73.8
MK # 2	AHTD RIGHT OF WAY MARKER	51	55.90	183.4
MK # 3				

AZ Mark Station	040115
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	SAL5

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040116	10/26/2016	AHTD	BENTON	43	090445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,818.5214	0.0030
Easting (M)	168,745.6638	0.0030
Elevation (M)*	358.619	

Northing (SFT)	714,626.2656	
Easting (SFT)	553,626.3987	
Elevation (SFT)*	1,176.569	

Convergence Angle	-1	29	51.8652418
Scale Factor	1.000007328		
Elevation Adjust. Factor	0.9999437242		
Combined Adjust. Factor	0.9999510518		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 12A		
Latitude	36	16	9.7652316
Longitude	94	34	25.9792428
Ellipsoid Height (M):	330.289	0.0070	
Geoid Height (M):	-28.343	0.0070	

Location Description

FROM JCT OF SR-12 & SR-43 W OF GENTRY, GO S ON SR-43 0.5MI TO STA ON L. 8' N OF CTR OF FIELD ENTRANCE. STA IS A 2 1/2" ALUM CAP STAMPED "040116 2016" SET BELLOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	N END OF GATE	92	23.00	75.5
MK # 2	CONC R/W	72	59.00	193.6
MK # 3	N END OF CUS	292	7.50	24.6

AZ Mark Station	040116A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 3RD ORDER U.S.C. & G.S. BM UE 3 A (NGVD 29 CONVERTED TO NAVD 88 USING VERTCON) IN NOV. 2016 FOR JOB # 090445. VERIFIED QUALITY OF UE 3 A BY CONSTRAINING ELEVATIONS ON AHTD CORS ARFY AND ON U.S.C. & G.S. 2ND ORDER BM'S K 31 & R 34 IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040116A	10/26/2016	AHTD	BENTON	43	090445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	218,301.9447	0.0030
Easting (M)	168,755.8094	0.0030
Elevation (M)*	355.092	
Northing (SFT)	716,212.2969	
Easting (SFT)	553,659.6847	
Elevation (SFT)*	1,164.999	

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	36	16	25.4520300	
Longitude	94	34	26.0791428	
Ellipsoid Height (M):	326.762			0.0070
Geoid Height (M):	-28.341			0.0070

Convergence Angle	-1	29	51.9233735
Scale Factor	1.000008241		
Elevation Adjust. Factor	0.9999442775		
Combined Adjust. Factor	0.9999525181		

Location Description

FROM JCT OF SR-12 & SR-43 W OF GENTRY, GO S ON SR-43 0.2MI TO STA ON R. 22' N OF CTR OF DW. STA IS A 2 1/2" ALUM CAP STAMPED "040116A 2016" SET BELLOW SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MTL POST	191	38.00	124.7
MK # 2	FENCE COR	273	6.50	21.3
MK # 3	N END OF CUS	153	11.00	36.1

AZ Mark Station	040116
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 3RD ORDER U.S.C. & G.S. BM UE 3 A (NGVD 29 CONVERTED TO NAVD 88 USING VERTCON) IN NOV. 2016 FOR JOB # 090445. VERIFIED QUALITY OF UE 3 A BY CONSTRAINING ELEVATIONS ON AHTD CORS ARFY AND ON U.S.C. & G.S. 2ND ORDER BM'S K 31 & R 34 IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040117	2/15/2018	ARDOT	BENTON	D HWY	BR0406

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	207,475.1431	0.0030
Easting (M)	184,324.6984	0.0030
Elevation (M)*		
Northing (SFT)	680,691.3653	
Easting (SFT)	604,738.6147	
Elevation (SFT)*		

Convergence Angle	-1	23	42.9059241
Scale Factor	0.999989848		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	10	47.0581356
Longitude	94	23	51.9186300
Ellipsoid Height (M):	288.624	0.0070	
Geoid Height (M):	-28.227	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND OLD HIGHWAY 68, EAST OF SILOAM SPRINGS, GO EAST ON OLD HIGHWAY 68 FOR 2.9 MILES TO THE MARK ON THE LEFT, 31.2' WEST OF THE C/L OF LOGAN ROAD AND NORTH 27.9' OF THE C/L OF OLD HIGHWAY 68. THE STATION MARK IS A STANDARD 2" CAP STAMPED "040117 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	R/W MKR	10	15.85	52.0
MK # 2	TB	60	18.99	62.3
MK # 3				

AZ Mark Station	040117A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, ARFS
Ref Mon # 2	ARHR, CTA1
Ref Mon # 3	OKTU, MOA2

Comments

ARFS WAS USED ONLY FOR A VERTICAL CONSTRAINT IN THE STATIC ADJUSTMENT. ALSO CONSTRAINED ORTHO HTS. ON ARFY & ARHR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040117-2	4/5/2018	ARDOT	BENTON	112	12270, 090513, 012305, 09006

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,559.1586	0.0010
Easting (M)	199,468.4441	0.0010
Elevation (M)*	380.664	

Northing (SFT)	697,371.1728	
Easting (SFT)	654,422.7204	
Elevation (SFT)*	1,248.896	

Convergence Angle	-1	17	53.0273148
Scale Factor	0.999999101		
Elevation Adjust. Factor	0.9999402649		
Combined Adjust. Factor	0.9999393660		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	13	43.5024768
Longitude	94	13	50.6484228
Ellipsoid Height (M):	352.536		0.0030
Geoid Height (M):	-28.121		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 2.4 MILES TO THE MARK ON THE LEFT, 45' EAST OF THE EDGE OF THE PAVEMENT AND SOUTH 69.7' OF THE EDGE OF THE EXIT RAMP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040117 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	ELECTRIC BOX	102	12.95	42.5
MK # 2				
MK # 3				

AZ Mark Station	040117A-2
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

DUPLICATED GPS POINT 040117 FROM JOB BR0406 SO RENAMED THIS ONE TO 040117-2 IN THE DATABASE BUT THE CAP IS STAMPED 040117.
**********ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040117A	2/15/2018	ARDOT	BENTON	D HWY	BR0406

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	207,582.4999	0.0030
Easting (M)	183,778.1049	0.0030
Elevation (M)*		

Northing (SFT)	681,043.5851	
Easting (SFT)	602,945.3325	
Elevation (SFT)*		

Convergence Angle	-1	23	55.6916289
Scale Factor	0.999990002		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	10	50.1078108
Longitude	94	24	13.8910032
Ellipsoid Height (M):	277.952	0.0070	
Geoid Height (M):	-28.231	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND OLD HIGHWAY 68, EAST OF SILOAM SPRINGS, GO EAST ON OLD HIGHWAY 68 FOR 2.6 MILES TO THE MARK ON THE RIGHT, SOUTH 32' OF THE C/L OF OLD HIGHWAY 68 AND 29' EAST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "040117A 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FE CORNER	178	1.77	5.8
MK # 2	NORTHEAST CORNER 1-S-F HOUSE	228	21.03	69.0
MK # 3				

AZ Mark Station	040117
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, ARFS
Ref Mon # 2	ARHR, CTA1
Ref Mon # 3	OKTU, MOA2

Comments

ARFS WAS USED ONLY FOR A VERTICAL CONSTRAINT IN THE STATIC ADJUSTMENT. ALSO CONSTRAINED ORTHO HTS. ON ARFY & ARHR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040117A-2	4/5/2018	ARDOT	BENTON	112	12270, 090513, 012305, 09006

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,014.2075	0.0020
Easting (M)	199,316.0088	0.0010
Elevation (M)*	357.458	
Northing (SFT)	698,864.1124	
Easting (SFT)	653,922.6055	
Elevation (SFT)*	1,172.761	

Convergence Angle	-1	17	56.8187223
Scale Factor	0.999999902		
Elevation Adjust. Factor	0.9999439063		
Combined Adjust. Factor	0.9999438083		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	13	58.1498400
Longitude	94	13	57.1639980
Ellipsoid Height (M):	329.332	0.0030	
Geoid Height (M):	-28.122	0.0030	

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	353	9.17	30.1
MK # 2	UNDERGROUND CABLE MARKER	205		
MK # 3		15.76		

AZ Mark Station	040117-2
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

DUPLICATED GPS POINT 040117A FROM JOB BR0406 SO RENAMED THIS ONE TO 040117A-2 IN THE DATABASE BUT THE CAP IS STAMPED 040117.
**********ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040118	4/5/2018	ARDOT	BENTON	112	012270, 090513

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	215,211.3486	0.0020
Easting (M)	199,278.9826	0.0020
Elevation (M)*	346.940	
Northing (SFT)	706,072.5662	
Easting (SFT)	653,801.1287	
Elevation (SFT)*	1,138.252	

Convergence Angle	-1	17	58.8425736
Scale Factor	1.000003871		
Elevation Adjust. Factor	0.9999455568		
Combined Adjust. Factor	0.9999494276		

Vertical Determined By:	3rd Order - Digital Levels				
Elevation Datum:	NAVD 88				
Geoid Datum:	GEOID12B				
Latitude	36	15	9.3862008		
Longitude	94	14	0.6420084		
Ellipsoid Height (M):	318.811			0.0040	
Geoid Height (M):	-28.124			0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 0.5 MILES TO THE MARK ON THE RIGHT, 25' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED"040118 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	210	5.27	17.3
MK # 2	COMBINATION POLE	354	7.22	23.7
MK # 3				

AZ Mark Station	040049
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040119	4/5/2018	ARDOT	BENTON	112	012270, 090513, 090514

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	218,343.4923	0.0020
Easting (M)	199,863.5498	0.0020
Elevation (M)*	350.532	
Northing (SFT)	716,348.6077	
Easting (SFT)	655,718.9963	
Elevation (SFT)*	1,150.037	

Convergence Angle	-1	17	46.8724998
Scale Factor	1.000009763		
Elevation Adjust. Factor	0.9999449931		
Combined Adjust. Factor	0.9999547556		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	16	51.4050816
Longitude	94	13	40.0713060
Ellipsoid Height (M):	322.398	0.0040	
Geoid Height (M):	-28.119	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 1.5 MILES TO THE MARK ON THE LEFT, 37' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040119 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	192	10.73	35.2
MK # 2	GUY POLE	181	13.11	43.0
MK # 3				

AZ Mark Station	040119A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040119A	4/5/2018	ARDOT	BENTON	112	012270, 090513, 090514

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	218,866.2371	0.0020
Easting (M)	199,840.4683	0.0020
Elevation (M)*	350.464	
Northing (SFT)	718,063.6462	
Easting (SFT)	655,643.2697	
Elevation (SFT)*	1,149.816	

Convergence Angle	-1	17	47.6863376	
Scale Factor	1.000010765			
Elevation Adjust. Factor	0.9999450037			
Combined Adjust. Factor	0.9999557681			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	17	8.3429700
Longitude	94	13	41.4698952
Ellipsoid Height (M):	322.331	0.0040	
Geoid Height (M):	-28.119	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 1.8 MILES TO THE MARK ON THE RIGHT, 26.2' 'EAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040119A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	R/W MARKER	172	19.51	64.0
MK # 2	COMBINATION POLE	6	18.41	60.4
MK # 3				

AZ Mark Station	040119
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040120	4/5/2018	ARDOT	BENTON	112	012270, 090514

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	221,627.4878	0.0020
Easting (M)	200,029.9464	0.0020
Elevation (M)*	387.588	
Northing (SFT)	727,122.8496	
Easting (SFT)	656,264.9158	
Elevation (SFT)*	1,271.613	

Convergence Angle	-1	17	44.7252375
Scale Factor	1.000016184		
Elevation Adjust. Factor	0.9999391785		
Combined Adjust. Factor	0.9999553615		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	18	38.0405916
Longitude	94	13	36.3812124
Ellipsoid Height (M):	359.441	0.0030	
Geoid Height (M):	-28.115	0.0030	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 3.6 MILES TO THE MARK ON THE LEFT, 33.5' 'WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040120 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	359	16.95	55.6
MK # 2	COMBINATION POLE W/TRANSFORMER	171	27.34	89.7
MK # 3				

AZ Mark Station	040120A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040120A	4/5/2018	ARDOT	BENTON	112	012270, 090514

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	222,037.6283	0.0020
Easting (M)	199,966.8257	0.0020
Elevation (M)*	391.308	
Northing (SFT)	728,468.4522	
Easting (SFT)	656,057.8273	
Elevation (SFT)*	1,283.815	

Convergence Angle	-1	17	46.4135692
Scale Factor	1.000017001		
Elevation Adjust. Factor	0.9999385948		
Combined Adjust. Factor	0.9999555948		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	18	51.2967240
Longitude	94	13	39.2826288
Ellipsoid Height (M):	363.163		0.0030
Geoid Height (M):	-28.114		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO NORTH ON HIGHWAY 112 3.9 MILES TO THE MARK ON THE LEFT, 38.2' 'WEST OF THE C/L OF THE HIGHWAY AND 26.2' NORTH OF THE EDGE OF THE PAVEMENT OF WINDMILL RD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040120A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	345	8.47	27.8
MK # 2				
MK # 3				

AZ Mark Station	040120
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040121	4/5/2018	ARDOT	BENTON	H ST.	012270, 090514

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	223,816.4005	0.0020
Easting (M)	200,664.6428	0.0020
Elevation (M)*	395.803	
Northing (SFT)	734,304.3073	
Easting (SFT)	658,347.2489	
Elevation (SFT)*	1,298.563	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	19	49.5003108	
Longitude	94	13	12.9245160	
Ellipsoid Height (M):	367.653			0.0030
Geoid Height (M):	-28.116			0.0030

Convergence Angle	-1	17	31.0758063
Scale Factor	1.000020638		
Elevation Adjust. Factor	0.9999378895		
Combined Adjust. Factor	0.9999585262		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 71B, IN BENTONVILLE, GO WEST ON HIGHWAY 12 0.5 MILES TO H ST. AND TURN LEFT (SOUTH) AND GO 0.35 MILES TO THE MARK ON THE RIGHT, 45' NORTH OF THE C/L OF RAZORBACK GREENWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040121 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGN "WELCOME TO BENTONVILLE"	280	22.86	75.0
MK # 2	SIGN "TRAIL OF 2 CITIES"	234	16.24	53.3
MK # 3	POWERPOLE W/2 GUYS	329	28.53	93.6

AZ Mark Station	040121A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040121A	4/5/2018	ARDOT	BENTON	H ST.	012270, 090514

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	224,296.1007	0.0020
Easting (M)	200,701.9906	0.0010
Elevation (M)*	394.524	
Northing (SFT)	735,878.1237	
Easting (SFT)	658,469.7808	
Elevation (SFT)*	1,294.369	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	20	5.0860680	
Longitude	94	13	11.8610544	
Ellipsoid Height (M):	366.373			0.0030
Geoid Height (M):	-28.117			0.0030

Convergence Angle	-1	17	30.4569790
Scale Factor	1.000021625		
Elevation Adjust. Factor	0.9999380901		
Combined Adjust. Factor	0.9999597138		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 71B, IN BENTONVILLE, GO WEST ON HIGHWAY 12 0.5 MILES TO H ST. AND TURN LEFT (SOUTH) AND GO 0.5 MILES TO THE MARK ON THE LEFT, 38' EAST OF THE C/L OF H ST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040121A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	342	7.16	23.5
MK # 2	MANHOLE	250	4.57	15.0
MK # 3	LIGHT POLE	16	10.67	35.0

AZ Mark Station	040121
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040122	3/19/2018	AHTD	BENTON	STULTZ	EF7211

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,808.0252	0.0020
Easting (M)	206,340.1091	0.0020
Elevation (M)*		

Northing (SFT)	691,625.9960	
Easting (SFT)	676,967.5079	
Elevation (SFT)*		

Convergence Angle	-1	15	12.0549998
Scale Factor			0.999996307
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12B	
Latitude	36 12	51.6674232
Longitude	94 9	14.0157432
Ellipsoid Height (M):	355.468	0.0060
Geoid Height (M):	-28.079	0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 49 AND WAGON WHEEL ROAD (EXIT 76), NORTH OF SPRINGDALE, GO EAST ON WAGON WHEEL ROAD FOR 1.05 MILES TO SILENT GROVE ROAD AND TURN RIGHT (SOUTH) AND GO 0.75 MILES TO WEST PUMP STATION ROAD AND TURN LEFT (EAST) AND GO 0.45 MILES TO NORTH STULTZ ROAD AND TURN LEFT (NORTH) AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, WEST 24' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2" CAP STAMPED "2018 040122" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	14	14.78	48.5
MK # 2	SS MANHOLE	202	11.37	37.3
MK # 3	CENTER OF GATE	325	4.72	15.5

AZ Mark Station	040122
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARFY
Ref Mon # 3	CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040122A	3/19/2018	AHTD	BENTON	P STATI	EF7211

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (2011)	
Northing (M)	210,455.9148	0.0020
Easting (M)	206,305.6233	0.0020
Elevation (M)*		
Northing (SFT)	690,470.7805	
Easting (SFT)	676,854.3658	
Elevation (SFT)*		

Convergence Angle	-1	15	12.6787689
Scale Factor	0.999995698		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	36	12	40.2220296
Longitude	94	9	15.0876972
Ellipsoid Height (M):	343.899	0.0060	
Geoid Height (M):	-28.079	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 49 AND WAGON WHEEL ROAD (EXIT 76), NORTH OF SPRINGDALE, GO EAST ON WAGON WHEEL ROAD FOR 1.05 MILES TO SILENT GROVE ROAD AND TURN RIGHT (SOUTH) AND GO 0.75 MILES TO WEST PUMP STATION ROAD AND TURN LEFT (EAST) AND GO 0.45 MILES TO NORTH PUMP STATION ROAD AND TURN RIGHT (SOUTH) AND GO 0.1 MILES TO THE STATION MARK ON THE RIGHT, WEST 274' OF THE C/L OF THE ROAD AND NORTH 50' OF THE C/L OF RAZORBACK GREENWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2018 040122A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	RAZORBACK GREENWAY MI MKR 16	206	11.98	39.3
MK # 2				
MK # 3				

AZ Mark Station	040122A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARFY
Ref Mon # 3	CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040123	3/18/2019	ARDOT	BENTON	102	090238

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	227,181.9781	0.0030
Easting (M)	192,490.1177	0.0030
Elevation (M)*		
Northing (SFT)	745,346.2065	
Easting (SFT)	631,527.9945	
Elevation (SFT)*		

Convergence Angle	-1	20	43.5863407
Scale Factor	1.000027273		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	21	32.5535544
Longitude	94	18	43.7559696
Ellipsoid Height (M):	386.281		0.0110
Geoid Height (M):	-28.076		0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 102B AND STATE HIGHWAY 102, IN CENTERTON, GO WEST ON HIGHWAY 102 1.55 MILES TO THE MARK ON THE RIGHT, NORTH 24' OF THE C/L OF THE HIGHWAY AND 101' WEST OF THE C/L OF KELLER ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040123" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	80	17.98	59.0
MK # 2	SW COR 1-2-B HOUSE	342	28.65	94.0
MK # 3	SERVICE POLE	291	25.15	82.5

AZ Mark Station	040123A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT.
CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040123A	3/18/2019	ARDOT	BENTON	102	090238

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	227,143.8891	0.0030
Easting (M)	192,971.4722	0.0030
Elevation (M)*		
Northing (SFT)	745,221.2428	
Easting (SFT)	633,107.2384	
Elevation (SFT)*		

Convergence Angle	-1	20	32.3341068
Scale Factor	1.000027216		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	21	31.6844640
Longitude	94	18	24.4188828
Ellipsoid Height (M):	386.572		0.0120
Geoid Height (M):	-28.079		0.0120

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 102B AND STATE HIGHWAY 102, IN CENTERTON, GO WEST ON HIGHWAY 102 1.25 MILES TO THE MARK ON THE LEFTT, SOUTH 26.7' OF THE C/L OF THE HIGHWAY AND 28.5' WEST OF THE C/L OF WESTERN HEIGHTS STREET. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040123A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP	155	4.88	16.0
MK # 2	WATER VALVE	190	7.16	23.5
MK # 3				

AZ Mark Station	040123
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT.
CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040124	3/18/2019	ARDOT	BENTON	102	090238

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	227,086.9125	0.0030
Easting (M)	194,915.3426	0.0030
Elevation (M)*		
Northing (SFT)	745,034.3121	
Easting (SFT)	639,484.7532	
Elevation (SFT)*		

Convergence Angle	-1	19	46.9469754
Scale Factor	1.000027191		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	21	31.3068960
Longitude	94	17	6.4206024
Ellipsoid Height (M):	354.448	0.0110	
Geoid Height (M):	-28.094	0.0110	

Location Description

THE STATION MARK IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF STATE HGIHWAY102B (MAIN ST.) AND STATE HIGHWAY 102 (WEST CENTERTON BLVD.), IN CENTERTON, THE MARK IS 43.5' NORTH FROM THE BACK OF CURB OF HIGHWAY 102 (W CENTERTON BLVD) AND WEST 72.7' OF THE C/L OF HIGHWAY 102B (MAIN ST.). THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040124" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL POLE	185	6.88	22.6
MK # 2	CP W/LIGHT	71	7.62	25.0
MK # 3	END OF FENCE	343	21.48	70.5

AZ Mark Station	040124A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT.
CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040124A	3/18/2019	ARDOT	BENTON	102	090238

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	227,023.8512	0.0030
Easting (M)	195,300.3765	0.0020
Elevation (M)*		

Northing (SFT)	744,827.4185	
Easting (SFT)	640,747.9852	
Elevation (SFT)*		

Convergence Angle	-1	19	37.9289017
Scale Factor	1.000027076		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	21	29.5512264
Longitude	94	16	50.9229444
Ellipsoid Height (M):	350.596		0.0110
Geoid Height (M):	-28.096		0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 102B AND STATE HIGHWAY 102, IN CENTERTON, GO EAST ON HIGHWAY 102 0.25 MILES TO THE MARK ON THE RIGHT, SOUTH 31.5' OF THE BACK OF THE CURB. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040124A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP W/GUY AND LIGHT	306	7.38	24.2
MK # 2	CP W/3 GUYS	81	24.38	80.0
MK # 3				

AZ Mark Station	040124
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

STATIC GPS DERIVED ELEV. BASED ON ORHTOMETRIC HT.
CONSTRAINTS ON ARDOT CORS SITES ARFS & ARFY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040125	5/1/2019	ARDOT	BENTON	59	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	220,879.0567	0.0020
Easting (M)	179,984.0856	0.0020
Elevation (M)*		
Northing (SFT)	724,667.3719	
Easting (SFT)	590,497.7875	
Elevation (SFT)*		

Convergence Angle	-1	25	31.7189778
Scale Factor	1.000013761		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	17	58.3244268	
Longitude	94	26	58.9150500	
Ellipsoid Height (M):	383.863			0.0170
Geoid Height (M):	-28.142			0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12, IN GENTRY, GO NORTH ON HIGHWAY 59 3.1 MILES TO THE MARK ON THE RIGHT, EAST 79' OF THE C/L OF THE HGIHWAY AND NORTH 79' OF AN PAVED ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040125" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	128	23.77	78.0
MK # 2	FENCE CORNER	346	28.96	95.0
MK # 3	18" RCP	214	9.45	31.0

AZ Mark Station	040125A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040125A	5/1/2019	ARDOT	BENTON	59	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	221,259.3512	0.0020
Easting (M)	179,907.9283	0.0020
Elevation (M)*		
Northing (SFT)	725,915.0547	
Easting (SFT)	590,247.9281	
Elevation (SFT)*		

Convergence Angle	-1	25	33.7152820
Scale Factor	1.000014506		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	18	10.5967692	
Longitude	94	27	2.3457204	
Ellipsoid Height (M):	389.173			0.0170
Geoid Height (M):	-28.140			0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12, IN GENTRY, GO NORTH ON HIGHWAY 59 3.35 MILES TO THE MARK ON THE LEFT, WEST 25.5' OF THE C/L OF THE HGIHWAY AND SOUTH 36.5' OF Y CITY ROAD AND 62' EAST OF THE NEAREST RAILROAD RAIL THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040125A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040125
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040126	5/1/2019	ARDOT	BENTON	59	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	223,699.1597	0.0020
Easting (M)	179,448.2660	0.0020
Elevation (M)*		

Northing (SFT)	733,919.6598	
Easting (SFT)	588,739.8527	
Elevation (SFT)*		

Convergence Angle	-1	25	45.8520712
Scale Factor	1.000019370		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	19	29.3533068
Longitude	94	27	23.2029252
Ellipsoid Height (M):	361.616	0.0170	
Geoid Height (M):	-28.136	0.0170	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102E, IN DECATUR, GO SOUTH ON HIGHWAY 59 0.85 MILES TO THE MARK ON THE LEFT, EAST 37' OF THE C/L OF THE HGIHWAY AND SOUTH 50' OF THE C/L OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040126" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/LIGHT AND TRANSFORME R	12	6.95	22.8
MK # 2	SS MANHOLE	116	10.82	35.5
MK # 3	END OF FENCE	33	6.19	20.3

AZ Mark Station	040126
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040126A	5/1/2019	ARDOT	BENTON	59	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	224,106.1616	0.0020
Easting (M)	179,342.0445	0.0020
Elevation (M)*		

Northing (SFT)	735,254.9652	
Easting (SFT)	588,391.3577	
Elevation (SFT)*		

Convergence Angle	-1	25	48.5663535
Scale Factor	1.000020194		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	19	42.4671672	
Longitude	94	27	27.8674488	
Ellipsoid Height (M):	356.296			0.0170
Geoid Height (M):	-28.137			0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102E, IN DECATUR, GO SOUTH ON HIGHWAY 59 0.6 MILES TO THE MARK ON THE LEFT, EAST 33.4' OF THE C/L OF THE HGIHWAY AND SOUTH 11' OF THE C/L OF JERRY AVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040126A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/LIGHT AND TRANSFORME R	131	5.30	17.4
MK # 2	FIRE HYDRANT	43	10.49	34.4
MK # 3	POWER POLE W/LIGHT AND TRANSFORME R	0	7.38	24.2

AZ Mark Station	040126A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040127	5/1/2019	ARDOT	BENTON	48	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	227,617.2899	0.0020
Easting (M)	181,298.1881	0.0020
Elevation (M)*		

Northing (SFT)	746,774.3919	
Easting (SFT)	594,809.1388	
Elevation (SFT)*		

Convergence Angle	-1	25	4.9699557
Scale Factor	1.000027625		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	21	37.9163736
Longitude	94	26	12.9465636
Ellipsoid Height (M):	327.361		0.0170
Geoid Height (M):	-28.113		0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON HIGHWAY 59 1.95 MILES TO BETHLEHEM (CR48) ROAD AND TURN RIGHT (EAST) AND GO 0.2 MILES TO THE MARK ON THE LEFT, NORTH 20' OF THE C/L OF THE ROAD AND SOUTH 3.8' OF A WITNESS POST.THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040127" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE	227	20.12	66.0
MK # 2				
MK # 3				

AZ Mark Station	040014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040128	5/1/2019	ARDOT	BENTON	59	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	230,336.9163	0.0020
Easting (M)	180,924.0032	0.0020
Elevation (M)*		
Northing (SFT)	755,697.0329	
Easting (SFT)	593,581.5005	
Elevation (SFT)*		

Convergence Angle	-1	25	15.2746593
Scale Factor	1.000033494		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	23	5.8170804	
Longitude	94	26	30.6553092	
Ellipsoid Height (M):	334.691			0.0170
Geoid Height (M):	-28.133			0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON HIGHWAY 59 3.7 MILES TO THE MARK ON THE LEFT, WEST 23' OF THE C/L OF THE HIGHWAY AND 35.3' SOUTH OF BETHEL ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040128" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	64	7.98	26.2
MK # 2	R/W MARKER	156	14.84	48.7
MK # 3	FENCE CORNER	89	10.24	33.6

AZ Mark Station	040128A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040128A	5/1/2019	ARDOT	BENTON	59	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	230,832.2645	0.0020
Easting (M)	180,960.7538	0.0020
Elevation (M)*		
Northing (SFT)	757,322.1878	
Easting (SFT)	593,702.0731	
Elevation (SFT)*		

Convergence Angle	-1	25	14.7036508
Scale Factor	1.000034588		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	23	21.9113952
Longitude	94	26	29.6740248
Ellipsoid Height (M):	325.603		0.0170
Geoid Height (M):	-28.136		0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 102W, IN DECATUR, GO NORTH ON HIGHWAY 59 4.0 MILES TO THE MARK ON THE RIGHT, EAST 41.2' OF THE C/L OF THE HIGHWAY AND 16.4 NORTH OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040128A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	357	1.43	4.7
MK # 2	POWER POLE W/TRANSFORMER	187	12.19	40.0
MK # 3	NE CORNER 1-S-B BLDING	259	33.53	110.0

AZ Mark Station	040128
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040129	7/24/2019	ARDOT	BENTON	59	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	234,890.2704	0.0030
Easting (M)	180,018.2315	0.0030
Elevation (M)*		

Northing (SFT)	770,635.8288	
Easting (SFT)	590,609.8145	
Elevation (SFT)*		

Convergence Angle	-1	25	39.0634256
Scale Factor	1.000043712		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	25	32.7563076	
Longitude	94	27	11.5365636	
Ellipsoid Height (M):	354.179			0.0060
Geoid Height (M):	-28.190			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72W AND STATE HIGHWAY 59, IN GRAVETTE, GO NORTH ON HIGHWAY 59 0.1 MILES TO THE MARK ON THE RIGHT, EAST 28 ' OF THE C/L OF THE HIGHWAY, 57.4' SOUTH OF THE C/L OF DETROIT ST NE AND 38.7' NORTH OF THE C/L OF THE DRIVEWAY TO THE DOLLAR GENERAL STORE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040129" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	41.5	12.62	41.4
MK # 2	NW CORNER DOLLAR STORE	82.5	25.15	82.5
MK # 3				

AZ Mark Station	040129A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040129A	7/24/2019	ARDOT	BENTON	59	090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	235,348.3668	0.0040
Easting (M)	179,850.0038	0.0030
Elevation (M)*		
Northing (SFT)	772,138.7667	
Easting (SFT)	590,057.8875	
Elevation (SFT)*		

Convergence Angle	-1	25	43.2586129
Scale Factor	1.000044764		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality				
Elevation Datum:	NAVD 88				
Geoid Datum:	Geoid12B				
Latitude	36	25	47.4766248		
Longitude	94	27	18.7460388		
Ellipsoid Height (M):	348.047			0.0070	
Geoid Height (M):	-28.199			0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72W AND STATE HIGHWAY 59, IN GRAVETTE, GO NORTH ON HIGHWAY 59 0.4 MILES TO THE MARK ON THE LEFT, WEST 42 ' OF THE C/L OF THE HIGHWAY, THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040129A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATSON HEADSTONE	226	7.68	25.2
MK # 2	R/W MARKER	342	9.75	32.0
MK # 3	POWER POLE	152	10.48	34.4

AZ Mark Station	040129
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040130	11/13/2019	ARDOT	BENTON	N/A	090069, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,054.8650	0.0020
Easting (M)	194,864.4268	0.0020
Elevation (M)*	367.018	
Northing (SFT)	708,840.0029	
Easting (SFT)	639,317.7069	
Elevation (SFT)*	1,204.125	

Convergence Angle	-1	19	42.1659691
Scale Factor	1.000005239		
Elevation Adjust. Factor	0.9999424062		
Combined Adjust. Factor	0.9999476449		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	15	33.4607472	
Longitude	94	16	58.2043908	
Ellipsoid Height (M):	338.836			0.0070
Geoid Height (M):	-28.131			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264W, IN CAVE SPRINGS, GO WEST ON HIGHWAY 264 FOR 3.3 MILES TO BRUSH ARBOR ROAD AND TURN RIGHT (NORTH) ON SAID ROAD GO FOR 0.15 MILES TO THE MARK ON THE RIGHT, 11.4' EAST OF THE C/L OF THE ROAD AND 2.6' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040130" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	330	26.91	88.3
MK # 2	FENCE CORNER	355	29.55	96.9
MK # 3	FENCE CORNER	78	1.52	5.0

AZ Mark Station	040130A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 & S5111 IN NOV. & DEC. 2019 FOR JOB #090069 FROM PN:903 FROM JOB #090402 THAT WAS ADJ. TO MATCH VERT. DATUM FROM JOB #090513 BY THE FOLLOWING METHOD. TBM's 902 FROM JOB #090402 & TBM FROM JOB #090513 WERE IN SAME HDWL. S5111 FROM LEVELING MEASURED 902 TO BE 0.0295' HIGHER THAN 919. 902 ADJ. FROM 1146.4094 TO 1146.2962, THEN 903 WAS ADJ. BASED ON ORIG. ELEV. DIFF. BETWEEN 902 & 903

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040130A	11/13/2019	ARDOT	BENTON	N/A	090069, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,410.9652	0.0020
Easting (M)	194,873.8279	0.0010
Elevation (M)*	375.089	

Northing (SFT)	710,008.3083	
Easting (SFT)	639,348.5504	
Elevation (SFT)*	1,230.606	

Convergence Angle	-1	19	42.1393164
Scale Factor	1.000005901		
Elevation Adjust. Factor	0.9999411397		
Combined Adjust. Factor	0.9999470404		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	15	45.0176076	
Longitude	94	16	58.1585880	
Ellipsoid Height (M):	346.903			0.0070
Geoid Height (M):	-28.130			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264W, IN CAVE SPRINGS, GO WEST ON HIGHWAY 264 FOR 3.3 MILES TO BRUSH ARBOR ROAD AND TURN RIGHT (NORTH) ON SAID ROAD AND GO FOR 0.35 MILES TO THE MARK ON THE LEFT, 13.5' WEST OF THE C/L OF THE ROAD AND 28.3' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040130A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE T INTERSECTION	125	11.06	36.3
MK # 2				
MK # 3				

AZ Mark Station	040130
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 & S5111 IN NOV. & DEC. 2019 FOR JOB #090069 FROM PN:903 FROM JOB #090402 THAT WAS ADJ. TO MATCH VERT. DATUM FROM JOB #090513 BY THE FOLLOWING METHOD. TBM's 902 FROM JOB #090402 & TBM FROM JOB #090513 WERE IN SAME HDWL. S5111 FROM LEVELING MEASURED 902 TO BE 0.0295' HIGHER THAN 919. 902 ADJ. FROM 1146.4094 TO 1146.2962, THEN 903 WAS ADJ. BASED ON ORIG. ELEV. DIFF. BETWEEN 902 & 903

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040131	11/13/2019	ARDOT	BENTON	N/A	090069, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,132.6825	0.0020
Easting (M)	196,736.3113	0.0010
Elevation (M)*	333.217	
Northing (SFT)	699,252.8092	
Easting (SFT)	645,459.0480	
Elevation (SFT)*	1,093.228	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	14	0.0828492	
Longitude	94	15	40.5507852	
Ellipsoid Height (M):	305.057			0.0070
Geoid Height (M):	-28.137			0.0070

Convergence Angle	-1	18	56.9794037
Scale Factor	1.000000008		
Elevation Adjust. Factor	0.9999477102		
Combined Adjust. Factor	0.9999477182		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 FOR 1.45 MILES TO WAGER DR AND TURN RIGHT (WEST) ON SAID ROAD AND GO 1.5 MILES TO THE MARK ON RIGHT, 20' NORTH OF THE C/L OF THE ROAD AND 3' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040131" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	93	31.70	104.0
MK # 2				
MK # 3				

AZ Mark Station	040131A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN NOV. 2019 FROM PN:62 FROM JOB #090513 FOR CONTROL FOR JOB #090069.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040131A	11/13/2019	ARDOT	BENTON	N/A	090069, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,412.6601	0.0020
Easting (M)	197,141.9256	0.0020
Elevation (M)*	332.335	

Northing (SFT)	700,171.3690	
Easting (SFT)	646,789.8009	
Elevation (SFT)*	1,090.337	

Convergence Angle	-1	18	47.6795619
Scale Factor	1.000000525		
Elevation Adjust. Factor	0.9999478484		
Combined Adjust. Factor	0.9999483734		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	14	9.4656984
Longitude	94	15	24.5689056
Ellipsoid Height (M):	304.177	0.0070	
Geoid Height (M):	-28.134	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 264E, IN CAVE SPRINGS, GO SOUTH ON HIGHWAY 112 FOR 1.45 MILES TO WAGER DR AND TURN RIGHT (WEST) ON SAID ROAD AND GO 1.2 MILES TO THE MARK ON THE RIGHT, 68' NORTHWEST OF THE C/L OF THE ROAD AND 85' NORTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 040131A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE	353	8.23	27.0
MK # 2	TELEPHONE BOX	63	14.94	49.0
MK # 3				

AZ Mark Station	040131
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN NOV. 2019 FROM PN:62 FROM JOB #090513 FOR CONTROL FOR JOB #090069.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040132	11/19/2019	ARDOT	BENTON	)ENHOEI	CB0401

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,691.5699	0.0030
Easting (M)	182,296.7148	0.0030
Elevation (M)*		

Northing (SFT)	714,209.7589	
Easting (SFT)	598,085.1385	
Elevation (SFT)*		

Convergence Angle	-1	24	35.9711898
Scale Factor	1.000007737		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	16	16.8022848
Longitude	94	25	23.1118680
Ellipsoid Height (M):	348.280		0.0110
Geoid Height (M):	-28.195		0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12E AND STATE HIGHWAY 59, IN GENTRY, GO EAST ON HIGHWAY 12 FOR 3.8 MILES AND TURN LEFT ON READINGS ROAD/SPRINGTOWN MAIN ST AND GO 0.05 MILES AND TURN RIGHT ON AUBER LONG ROAD (352) AND GO 0.1 MILES AND TURN LEFT ONTO BREDENHOEFT ROAD (349) AND GO 0.7 MILES TO THE MARK ON THE LEFT, WEST 13.5' OF THE C/L OF THE GRAVEL ROAD AND EAST OF A WITNESS POST 1.8'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "20`19 040132" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE WEST OF RD.	146	28.32	92.9
MK # 2	HACKBERRY W/ T POST IN IT	326	13.66	44.8
MK # 3				

AZ Mark Station	040132A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040132A	11/19/2019	ARDOT	BENTON	)ENHOEI	CB0401

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	218,055.1090	0.0030
Easting (M)	182,129.8804	0.0030
Elevation (M)*		

Northing (SFT)	715,402.4701	
Easting (SFT)	597,537.7826	
Elevation (SFT)*		

Convergence Angle	-1	24	40.0682487
Scale Factor	1.000008416		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	16	28.4596536
Longitude	94	25	30.1527084
Ellipsoid Height (M):	353.720		0.0110
Geoid Height (M):	-28.192		0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12E AND STATE HIGHWAY 59, IN GENTRY, GO EAST ON HIGHWAY 12 FOR 3.8 MILES AND TURN LEFT ON READINGS ROAD/SPRINGTOWN MAIN ST AND GO 0.05 MILES AND TURN RIGHT ON AUBER LONG ROAD (352) AND GO 0.1 MILES AND TURN LEFT ONTO BREDENHOEFT ROAD (349) AND GO 1.0 MILES TO THE MARK ON THE RIGHT, EAST 14.2' OF THE C/L OF THE GRAVEL ROAD AND WEST OF A WITNESS POST 2.2'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "20`19 040132A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040132
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040133	9/29/2020	ARDOT	BENTON	CR 34	090580

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (2011)	
Northing (M)	239,066.4593	0.0030
Easting (M)	186,836.6622	0.0030
Elevation (M)*		
Northing (SFT)	784,337.2086	
Easting (SFT)	612,979.9492	
Elevation (SFT)*		

Convergence Angle	-1	23	2.1948981
Scale Factor	1.000053988		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	36	27	53.6191704	
Longitude	94	22	41.9562876	
Ellipsoid Height (M):	371.762			0.0090
Geoid Height (M):	-28.228			0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279, IN NHIWASSE, GO SOUTH ON HIGHWAY 279 0.5 MILES TO HIWASSE ROAD AND TURN RIGHT AND GO 0.9 MILES TO HIGHLANDS BLVD AND TURN LEFT AND GO 0.8 MILES TO ROCKY DELL HOLLOW ROAD AND TURN LEFT AND GO 0.3 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE ROAD 31.6'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040133 2020" ON TOPO OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SE CORNER OF BRIDGE	285	9.14	30.0
MK # 2	DROP INLET	6	2.23	7.3
MK # 3				

AZ Mark Station	040133A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	MOA2, MOCS

Comments

STATIC DERIVED ELEVATION BASED ON ORHTOMETRIC HT.
CONSTRAINTS ON ARDOT CORS ARFS & ARFY AND ON NGS BM R 34

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040133A	9/29/2020	ARDOT	BENTON	RTSCHY	090580

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	238,649.0776	0.0030
Easting (M)	186,739.0411	0.0030
Elevation (M)*		
Northing (SFT)	782,967.8488	
Easting (SFT)	612,659.6707	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	27	40.0066884
Longitude	94	22	45.4708020
Ellipsoid Height (M):	364.949		0.0090
Geoid Height (M):	-28.221		0.0090

Convergence Angle	-1	23	4.2399909
Scale Factor	1.000052975		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279, IN NHIWASSE, GO SOUTH ON HIGHWAY 279 0.5 MILES TO HIWASSE ROAD AND TURN RIGHT AND GO 0.9 MILES TO HIGHLANDS BLVD AND TURN LEFT AND GO 0.8 MILES TO ROCKY DELL HOLLOW ROAD AND TURN LEFT AND GO 0.5 MILES TO A STOP SIGN AND TURN LEFT AND GO 0.1 MILES TO BERTSCHY LN AND TURN LEFT AND GO 0.2 MILES TO THE MARK ON THE LEFT. EAST OF THE C/L OF THE ROAD 80.7' AND WEST 2.5' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "040133A 2020" ON TOPO OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	040133
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	MOA2, MOCS

Comments

STATIC DERIVED ELEVATION BASED ON ORHTOMETRIC HT.
CONSTRAINTS ON ARDOT CORS ARFS & ARFY AND ON NGS BM R 34

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040134	10/7/2020	ARDOT	BENTON	12	09X025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,507.8886	0.0030
Easting (M)	174,734.0570	0.0040
Elevation (M)*		
Northing (SFT)	713,607.1312	
Easting (SFT)	573,273.3187	
Elevation (SFT)*		

Convergence Angle	-1	27	32.1182098
Scale Factor	1.000007035		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	16	4.7030124
Longitude	94	30	25.8224436
Ellipsoid Height (M):	338.736	0.0140	
Geoid Height (M):	-28.296	0.0140	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12W, IN GENTRY, GO WEST ON HIGHWAY 12 1.6 MILES TO THE MARK ON THE RIGHT, NORTH 20.1' OF THE C/L OF THE HIGHWAY AND ACROSS THE ROAD FROM BETTY BAKER ROAD. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 040134" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/6 GUYS	359	6.04	19.8
MK # 2	TELEPHONE BOX	333	5.94	19.5
MK # 3				

AZ Mark Station	040134A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	MOA2 OKTU

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040134A	10/7/2020	ARDOT	BENTON	12	09X025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,530.8338	0.0030
Easting (M)	174,290.6757	0.0040
Elevation (M)*		
Northing (SFT)	713,682.4106	
Easting (SFT)	571,818.6585	
Elevation (SFT)*		

Convergence Angle	-1	27	42.4648939
Scale Factor	1.000007057		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	16	5.0805840
Longitude	94	30	43.6033332
Ellipsoid Height (M):	334.229	0.0130	
Geoid Height (M):	-28.303	0.0130	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12W, IN GENTRY, GO WEST ON HIGHWAY 12 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 28.9" OF THE C/L OF THE HIGHWAY, 49.2' WEST OF THE C/L OF A GRAVEL DRIVEWAY AND 62' EAST OF THE C/L OF A ASPH DRIVEWAY.. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 040134A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	273	9.02	29.6
MK # 2				
MK # 3				

AZ Mark Station	040134
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	MOA2 OKMU

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040135	7/8/2021	ARDOT	BENTON	59	090651

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,224.8211	0.0030
Easting (M)	176,687.5625	0.0030
Elevation (M)*		

Northing (SFT)	709,397.6006	
Easting (SFT)	579,682.4446	
Elevation (SFT)*		

Convergence Angle	-1	26	45.8364322
Scale Factor	1.000004739		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID 18		
Latitude	36	15	24.6965760
Longitude	94	29	6.2867040
Ellipsoid Height (M):	341.228		0.0110
Geoid Height (M):	-28.278		0.0110

Location Description

FROM THE INTERSECTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 12 IN GENTRY, BENTON COUNTY, ARKANSAS TRAVEL SOUTHWEST ALONG STATE HIGHWAY 59, 0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 43' (13.1M) EAST OF THE CENTERLINE OF STATE HIGHWAY 59 AND SET SET IN THE CENTER OF A GRASS ISLAND BETWEEN

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W LIGHT	5	22.60	74.1
MK # 2	GAS METER	156	23.50	77.1
MK # 3	WATER METER	41	13.10	43.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040136	4/23/2024	ARDOT	BENTON	43	09X493

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	232,953.5419	0.0030
Easting (M)	166,632.1926	0.0030
Elevation (M)*	314.024	
Northing (SFT)	764,281.7454	
Easting (SFT)	546,692.4519	
Elevation (SFT)*	1,030.259	

Convergence Angle	-1	30	50.4422055
Scale Factor	1.000038505		
Elevation Adjust. Factor	0.9999507219		
Combined Adjust. Factor	0.9999892250		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	24	18.8019684
Longitude	94	36	6.6443940
Ellipsoid Height (M):	285.555	0.0070	
Geoid Height (M):	-28.469		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 43 AND HIGHWAY 72IN MAYSVILLE, BENTON COUNTY, TRAVEL NORTH ALONG HIGHWAY 43 FOR 0.1 MILES TO THE STATION ON THE LEFT SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 040136, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 53FT WEST OF THE CENTERLINE OF HIGHWAY 43, 47FT NORTH OF THE CENTER OF THE DRIVEWAY TO THE MAYSVILLE FIRE STATION, AND 70FT SOUTH OF THE CENTER OF WESTSIDE ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	358	24.00	78.7
MK # 2	SOUTH END OF A 18IN CORRUGATED MET AL PIPE THAT RUNS UNDER WESTSIDE RD	220	20.00	65.6
MK # 3	NORTHEAST CORNER OF THE MAYSVILLE FIRE DEPARTMENT STATION	88	37.00	121.4

AZ Mark Station	040136A
Geodetic Azimuth	26 14 42.4
Grid Azimuth	27 45 31.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	

Comments

ELEV WAS EST BY STATIC OBS HOLDING AN OFFSET RAN FROM NGS BM Q34 BY CREW S5102 DURING JOB 09X493 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040136A	4/23/2024	ARDOT	BENTON	43	09X493

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	233,221.8173	0.0030
Easting (M)	166,773.3910	0.0030
Elevation (M)*	319.616	
Northing (SFT)	765,161.9123	
Easting (SFT)	547,155.7003	
Elevation (SFT)*	1,048.608	

Convergence Angle	-1	30	47.3114006	
Scale Factor	1.000039120			
Elevation Adjust. Factor	0.9999498443			
Combined Adjust. Factor	0.9999889623			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	24	27.6230340
Longitude	94	36	1.2640716
Ellipsoid Height (M):	291.144	0.0070	
Geoid Height (M):	-28.468		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 43 AND HIGHWAY 72 IN MAYSVILLE , BENTON COUNTY, TRAVEL NORTH ALONG HIGHWAY 43 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 040136A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A REBAR 4FT IN LENGTH. THE STATION IS 43FT EAST OF THE CENTERLINE OF HIGHWAY 43 AND 30FT NORTH OF THE CENTER OF THE DRIVEWAY TO MAYSVILLE MISSIONARY BAPTIST CHURCH.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF THE DOUBLE DOORS TO MAYS VILLE MISSIONARY BAPTIST CHURCH	240	28.00	91.9
MK # 2	WEST SIGN POST FOR MAYSVILLE MISSION ARY BAPTIST CHURCH	195	11.00	36.1
MK # 3	NORTH END OF A 18IN CORRUGATED MET AL PIPE THAT RUNS UNDER THE DRIVEWA	77	6.00	19.7

AZ Mark Station	040136
Geodetic Azimuth	206 14 42.4
Grid Azimuth	207 45 31.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM GPS 040136 BY CREW S5102 DURING JOB 09X493 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040137	5/5/2025	ARDOT	Benton	: Town R	090775

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	235,791.2466	0.0010
Easting (M)	214,572.8543	0.0010
Elevation (M)*	408.621	0.0008
Northing (SFT)	773,591.7816	
Easting (SFT)	703,977.7728	
Elevation (SFT)*	1,340.618	

Convergence Angle	-1	12	12.5235278
Scale Factor	1.000047666		
Elevation Adjust. Factor	0.9999358781		
Combined Adjust. Factor	0.9999835411		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	26	27.7119024
Longitude	94	4	5.4889500
Ellipsoid Height (M):	380.395		0.0070
Geoid Height (M):	-28.233		

Location Description

To reach from the intersection on Arkansas State Highway 72 ((North Curtis Avenue) and Arkansas State Highway 94 (West Pickens Road) in downtown Pea Ridge, Benton County, Arkansas travel South along Arkansas State Highway 72 for 0.5 miles to the intersectionon Lee Town Road on the left then continue along Lee Town Road 2.7 miles to the station on the Left. The Station is 26 feet (7.92 meters) North of the centerline of Lee Town Road and 3.7 feet (1.13 meters) South of a witness post set in a East West fence line a standard 3 inch ARDOT GPS cap stamped 040137 / 2025 set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	0	1.22	4.0
MK # 2	8" Wooden Fence Corner	137	27.13	89.0
MK # 3				

AZ Mark Station	040137A
Geodetic Azimuth	93 37 13.7
Grid Azimuth	94 49 20.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	MOCS

Comments

ELEV DETERMINED BY STATIC HOLDING ELEV OF NGS BM Q26 TO GPS 040137A. DIGITAL LEVELS WERE RAN FROM GPS 040137A TO EST ELEV ON THIS POINT IN MAY 2025 BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040137A	5/5/2025	ARDOT	Benton	: Town R	090775

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	235,750.1370	0.0010
Easting (M)	215,060.1360	0.0010
Elevation (M)*	414.257	0.0000
Northing (SFT)	773,456.9078	
Easting (SFT)	705,576.4629	
Elevation (SFT)*	1,359.108	

Convergence Angle	-1	12	1.1213580
Scale Factor			1.000047593
Elevation Adjust. Factor			0.9999349938
Combined Adjust. Factor			0.9999825837

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	26	26.7101520	
Longitude	94	3	45.8941968	
Ellipsoid Height (M):	386.025			0.0070
Geoid Height (M):	-28.232			

Location Description

To reach from the intersection on Arkansas State Highway 72 ((North Curtis Avenue) and Arkansas State Highway 94 (West Pickens Road) in downtown Pea Ridge, Benton County, Arkansas travel South along Arkansas State Highway 72 for 0.5 miles to the intersectionon Lee Town Road on the left then continue along Lee Town Road 3.0 miles to the station on the Right. The Station is 28 feet (8.53 meters) South of the centerline of Lee Town Road and 1.7 feet (0.518 meters) North of a witness post set in a East West fence line a standard 3 inch ARDOT GPS cap stamped 040137A / 2025 set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	6" Steel Fence Post	180	0.62	2.0
MK # 2	Power Pole	68	29.87	98.0
MK # 3	Power Pole	308	33.22	109.0

AZ Mark Station	040137
Geodetic Azimuth	273 37 13.7
Grid Azimuth	274 49 20.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	MOCS

Comments

ELEV DETERMINED BY STATIC HOLDING ELEV OF NGS BM Q26 TO GPS 040137A IN MAY 2025 BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040138	5/5/2025	ARDOT	Benton	: Town R	090775

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	235,959.2634	0.0010
Easting (M)	211,457.5188	0.0010
Elevation (M)*	398.177	0.0008
Northing (SFT)	774,143.0167	
Easting (SFT)	693,756.8763	
Elevation (SFT)*	1,306.353	

Convergence Angle	-1	13	25.3755311
Scale Factor	1.000047906		
Elevation Adjust. Factor	0.9999375169		
Combined Adjust. Factor	0.9999854199		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	26	31.0207416
Longitude	94	6	10.6859124
Ellipsoid Height (M):	369.948		0.0070
Geoid Height (M):	-28.233		

Location Description

To reach from the intersection on Arkansas State Highway 72 ((North Curtis Avenue) and Arkansas State Highway 94 (West Pickens Road) in downtown Pea Ridge, Benton County, Arkansas travel South along Arkansas State Highway 72 for 0.5 miles to the intersectionon Lee Town Road on the left then continue along Lee Town Road 0.75 miles to the station on the Left. The Station is 40 feet (12.19 meters) North of the centerline of Lee Town Road and 50 feet (15.24 meters) West of the centerline of Rickett Street, 3.7 feet (1.13 meters) South of a witness post a standard 3 inch ARDOT GPS cap stamped 040138 / 2025 set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	0	1.22	4.0
MK # 2	Fire Hydrant	33	6.40	21.0
MK # 3				

AZ Mark Station	040138A
Geodetic Azimuth	93 55 33.4
Grid Azimuth	95 08 53.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	MOCS

Comments

ELEV DETERMINED BY STATIC HOLDING ELEV OF NGS BM Q26 TO GPS 040138A. DIGITAL LEVELS WERE RAN FROM GPS 040138A TO EST ELEV ON THIS POINT IN MAY 2025 BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040138A	5/5/2025	ARDOT	Benton	Town R	090775

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	235,914.7101	0.0010
Easting (M)	211,952.0438	0.0010
Elevation (M)*	397.387	0.0000
Northing (SFT)	773,996.8447	
Easting (SFT)	695,379.3304	
Elevation (SFT)*	1,303.760	

Convergence Angle	-1	13	13.8020707
Scale Factor	1.000047826		
Elevation Adjust. Factor	0.9999376409		
Combined Adjust. Factor	0.9999854640		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	26	29.9178996
Longitude	94	5	50.7967944
Ellipsoid Height (M):	369.153	0.0070	
Geoid Height (M):	-28.233		

Location Description

To reach from the intersection on Arkansas State Highway 72 ((North Curtis Avenue) and Arkansas State Highway 94 (West Pickens Road) in downtown Pea Ridge, Benton County, Arkansas travel South along Arkansas State Highway 72 for 0.5 miles to the intersectionon Lee Town Road on the left then continue along Lee Town Road 1.05 miles to the station on the Right. The Station is 21 feet (6.40 meters) South of the centerline of Lee Town Road 10.0 feet (3.05 meters) North of a witness post a standard 3 inch ARDOT GPS cap stamped 040138A / 2025 set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northeast Corner of Block Milk Barn	235	20.73	68.0
MK # 2	Power Pole	10	21.03	69.0
MK # 3	6 inch Steel Gate Post	332	19.81	65.0

AZ Mark Station	040138
Geodetic Azimuth	273 55 33.4
Grid Azimuth	275 08 53.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	MOCS

Comments

ELEV DETERMINED BY STATIC HOLDING ELEV OF NGS BM Q26 TO GPS 040138A IN MAY 2025 BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040139	5/6/2025	ARDOT	Benton	Hwy 72	090775

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	236,085.2145	0.0010
Easting (M)	208,226.5507	0.0010
Elevation (M)*	395.449	0.0008
Northing (SFT)	774,556.2412	
Easting (SFT)	683,156.6084	
Elevation (SFT)*	1,297.403	

Convergence Angle	-1	14	40.9088522
Scale Factor	1.000048039		
Elevation Adjust. Factor	0.9999379450		
Combined Adjust. Factor	0.9999859810		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	26	32.8480836	
Longitude	94	8	20.4907488	
Ellipsoid Height (M):	367.219			0.0070
Geoid Height (M):	-28.226			

Location Description

To reach from the intersection on Arkansas State Highway 72 ((North Curtis Avenue) and Arkansas State Highway 94 (West Pickens Road) in downtown Pea Ridge, Benton County, Arkansas travel South along Arkansas State Highway 72 for 0.5 miles to the intersectionon Lee Town Road on the left and Arkansas State Highway 72 (Slack Street) on the Right then continue Right along Arkansas State Highway 72 (Slack Street) 1.27 miles to the station on the Leftt. The Station is 40 feet (12.19 meters) South of the centerline of Arkansas State Highway 72 (Slack Street) 5.5 feet (1.65 meters) North of a witness post a standard 3 inch ARDOT GPS cap stamped 040139 / 2025 set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	100	17.37	57.0
MK # 2	East End of 18 inch Metal Culvert	14	18.90	62.0
MK # 3				

AZ Mark Station	040139A
Geodetic Azimuth	88 22 06.0
Grid Azimuth	89 36 41.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	MOCS

Comments

ELEV DETERMINED BY STATIC HOLDING ELEV OF NGS BM Q26 TO GPS 040139A. DIGITAL LEVELS WERE RAN FROM GPS 040139A TO EST ELEV ON THIS POINT IN MAY 2025 BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040139A	5/6/2025	ARDOT	Benton	Hwy 72	090775

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	236,088.3749	0.0010
Easting (M)	208,692.6502	0.0010
Elevation (M)*	398.596	0.0000
Northing (SFT)	774,566.6100	
Easting (SFT)	684,685.8032	
Elevation (SFT)*	1,307.728	

Convergence Angle	-1	14	30.0231540
Scale Factor	1.000048070		
Elevation Adjust. Factor	0.9999374512		
Combined Adjust. Factor	0.9999855182		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	26	33.2786364
Longitude	94	8	1.7835576
Ellipsoid Height (M):	370.369	0.0070	
Geoid Height (M):	-28.228		

Location Description

To reach from the intersection on Arkansas State Highway 72 ((North Curtis Avenue) and Arkansas State Highway 94 (West Pickens Road) in downtown Pea Ridge, Benton County, Arkansas travel South along Arkansas State Highway 72 for 0.5 miles to the intersectionon Lee Town Road on the left and State Highway 72 (Slack Street) on the Right then continue Right along Arkansas State Highway 72 (Slack Street) 0.97 miles to the station on the Right. The Station is 43 feet (13.11 meters) North of the centerline of Arkansas State Highway 72 (Slack Street) 5 feet (1.2 meters) South of a witness post a standard 3 inch ARDOT GPS cap stamped 040139A / 2025 set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Center of Head Wall	175	7.92	26.0
MK # 2	Combination Pole	265	19.81	65.0
MK # 3	West End of a 18" Metal Culvert	105	24.99	82.0

AZ Mark Station	040139
Geodetic Azimuth	268 22 06.0
Grid Azimuth	269 36 41.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	MOCS

Comments

ELEV DETERMINED BY STATIC HOLDING ELEV OF NGS BM Q26 TO GPS 040139A IN MAY 2025 BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040140	5/6/2025	ARDOT	Benton	Hwy 94	090775

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	237,845.8611	0.0010
Easting (M)	208,133.1130	0.0010
Elevation (M)*	394.138	0.0000
Northing (SFT)	780,332.6293	
Easting (SFT)	682,850.0549	
Elevation (SFT)*	1,293.102	

Convergence Angle	-1	14	43.9855663
Scale Factor	1.000052224		
Elevation Adjust. Factor	0.9999381507		
Combined Adjust. Factor	0.9999903714		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	27	29.8847088
Longitude	94	8	25.7781156
Ellipsoid Height (M):	365.897	0.0070	
Geoid Height (M):	-28.241		

Location Description

To reach from the intersection on Arkansas State Highway 72 ((North Curtis Avenue) and Arkansas State Highway 94 (West Pickens Road) in downtown Pea Ridge, Benton County, Arkansas travel West along Arkansas State Highway 94 for 1.5 miles to the station on the Left. The Station is 50 feet (15.24 meters) West of the centerline of Arkansas State Highway 94, 10 feet (3.05 meters) East of a witness post a standard 3 inch ARDOT GPS cap stamped 040140 / 2025 set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Brick Gate Post	216	5.47	17.9
MK # 2	North End of a 18 inch Metal Culvert	136	6.70	22.0
MK # 3				

AZ Mark Station	040140A
Geodetic Azimuth	4 10 41.3
Grid Azimuth	5 25 24.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	MOCS

Comments

ELEV DETERMINED BY STATIC HOLDING ELEV OF NGS BM Q26 TO GPS 040140 IN MAY 2025 BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
040140A	5/6/2025	ARDOT	Benton	Hwy 94	090775

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	238,310.6993	0.0010
Easting (M)	208,177.2460	0.0010
Elevation (M)*	394.377	0.0008
Northing (SFT)	781,857.6860	
Easting (SFT)	682,994.8479	
Elevation (SFT)*	1,293.886	

Convergence Angle	-1	14	43.1905695
Scale Factor	1.000053345		
Elevation Adjust. Factor	0.9999381132		
Combined Adjust. Factor	0.9999914549		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	27	44.9917092
Longitude	94	8	24.4119048
Ellipsoid Height (M):	366.135		0.0070
Geoid Height (M):	-28.246		

Location Description

To reach from the intersection on Arkansas State Highway 72 ((North Curtis Avenue) and Arkansas State Highway 94 (West Pickens Road) in downtown Pea Ridge, Benton County, Arkansas travel West along Arkansas State Highway 94 for 1.8 miles to the station on the Right. The Station is 36 feet (10.97 meters) East of the centerline of Arkansas State Highway 94, 2.5 feet (0.76 meters) East of a witness post a standard 3 inch ARDOT GPS cap stamped 040140A / 2025 set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	8 inch Wooden Fence Post	90	0.91	3.0
MK # 2	Power Pole	275	24.38	80.0
MK # 3	8 inch Wooden Gate Post	170	2.74	9.0

AZ Mark Station	040140
Geodetic Azimuth	184 10 41.3
Grid Azimuth	185 25 24.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	MOCS

Comments

ELEV DETERMINED BY STATIC HOLDING ELEV OF NGS BM Q26 TO GPS 040140. DIGITAL LEVELS WERE RAN FROM GPS 040140 TO EST ELEV ON THIS POINT IN MAY 2025 BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050001	10/17/1990	AHTD	BOONE	62	90219,R90017,R90104,09020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,342.8260	
Easting (M)	283,808.2330	
Elevation (M)*	347.367	
Northing (SFT)	716,346.4216	
Easting (SFT)	931,127.5111	
Elevation (SFT)*	1,139.653	

Convergence Angle	0	45	9.7186407
Scale Factor			1.000012660
Elevation Adjust. Factor			0.9999454898
Combined Adjust. Factor			0.9999581491

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	17	40.0938072
Longitude	93	17	36.6781776
Ellipsoid Height:			318.371
Grid Northing (Meters)			218,343.2793
Grid Easting (Meters)			283,808.3105

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	40.0790688	
Longitude	93	17	36.6810468	
Ellipsoid Height (M):			319.200	
Geoid Height (M):			-28.167	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 WEST, LOCATED IN ALPENA, GO EAST ON U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.80 METERS EAST OF THE CENTER OF

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	268	12.15	39.9
MK # 2	TELEPHONE POLE	331	37.00	121.4
MK # 3	GUY POLE	66	7.70	25.3

AZ Mark Station	050001A
Geodetic Azimuth	81 19 33
Grid Azimuth	82 04 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	CNWM
Ref Mon # 2	ARHR
Ref Mon # 3	080031, 080031A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050001A	4/21/1997	AHTD	BOONE	62	090219,R90104,090202

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	218,387.1910
Easting (M)	284,127.0710
Elevation (M)*	346.688
Northing (SFT)	716,491.9758
Easting (SFT)	932,173.5654
Elevation (SFT)*	1,137.426

Convergence Angle	0	45	2.2973962
Scale Factor			1.000012755
Elevation Adjust. Factor			0.9999455963
Combined Adjust. Factor			0.9999583506

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	17	41.6688468
Longitude	93	17	23.9247024
Ellipsoid Height:			317.683
Grid Northing (Meters)			218,387.6492
Grid Easting (Meters)			284,127.1483

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	41.6539500
Longitude	93	17	23.9275572
Ellipsoid Height (M):	318.519		
Geoid Height (M):	-28.169		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 WEST, LOCATED IN ALPENA, GO EAST ON U.S. HIGHWAY 62 AND U.S. HIGHWAY 412 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF DENTON STREET AND THE STATION ON THE LEFT. THE STATION IS 23

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	24	19.39	63.6
MK # 2	FIRE HYDRANT	180	30.21	99.1
MK # 3	1.00 METER ELM	70	25.00	82.0

AZ Mark Station	050001
Geodetic Azimuth	261 19 40
Grid Azimuth	262 04 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	CNWM
Ref Mon # 3	080031, 080031A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050002	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,313.9700	
Easting (M)	283,615.7360	
Elevation (M)*	349.414	
Northing (SFT)	716,251.7499	
Easting (SFT)	930,495.9605	
Elevation (SFT)*	1,146.369	

Convergence Angle	0	45	14.1985080
Scale Factor	1.000012599		
Elevation Adjust. Factor	0.9999451686		
Combined Adjust. Factor	0.9999577669		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	39.0608844
Longitude	93	17	44.3797476
Ellipsoid Height (M):	320.454		
Geoid Height (M):	-28.960		

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR 0.1 MILE EAST OF JUNCTION HIGHWAY 62 AND HIGHWAY 412 IN ALPENA AT EAST MOST DRIVE OF CIRCLE DRIVE ON NORTH SIDE OF HIGHWAY 62.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SW FACE OF POLE	50	10.50	34.4
MK # 2	REFLECTOR POST	145	13.46	44.1
MK # 3	60D IN E FACE OF EAST MOST GUARD POST	275	22.21	72.9

AZ Mark Station	050003A
Geodetic Azimuth	77 34 43.2
Grid Azimuth	76 49 29.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050003A	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,380.5200	
Easting (M)	283,900.0230	
Elevation (M)*	346.582	
Northing (SFT)	716,470.0894	
Easting (SFT)	931,428.6588	
Elevation (SFT)*	1,137.078	

Convergence Angle	0	45	7.5897816
Scale Factor	1.000012736		
Elevation Adjust. Factor	0.9999456129		
Combined Adjust. Factor	0.9999583482		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	41.3409516
Longitude	93	17	33.0225792
Ellipsoid Height (M):	317.619		
Geoid Height (M):	-28.963		

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36"x 3/4" REBAR 3.61' EAST OF END OF CURB WEST SW OF CITY HALL AND COMMUNITY CENTER IN ALPENA 0.25 MILE EAST OF JCT HIGHWAY 412 AND HIGHWAY 62.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW CORNER OF BUILDING	65	17.74	58.2
MK # 2	60D NAIL IN POLE	225	17.56	57.6
MK # 3	60D NAIL IN POLE	165	22.39	73.4

AZ Mark Station	050002
Geodetic Azimuth	257 34 36.6
Grid Azimuth	256 49 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050004	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,128.1231	
Easting (M)	285,288.2360	
Elevation (M)*	351.462	
Northing (SFT)	715,642.0172	
Easting (SFT)	935,983.1543	
Elevation (SFT)*	1,153.088	

Convergence Angle	0	44	35.1423172
Scale Factor	1.000012280		
Elevation Adjust. Factor	0.9999448472		
Combined Adjust. Factor	0.9999571265		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	33.7409124
Longitude	93	16	37.2612576
Ellipsoid Height (M):	322.493		
Geoid Height (M):	-28.969		

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON A 36"x 3/4" REBAR APPROXIMATELY 10' NORTH OF NORTH EDGE OF PAVEMENT APPROX 1.1 MILES EAST OF JUNCTION HIGHWAY 412 AND HIGHWAY 62 IN ALPENA.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN TOP OF BRACE POST	65	34.14	112.0
MK # 2	AHTD R/W MARKER	350	12.62	41.4
MK # 3	PK-SHINER	210	4.37	14.3

AZ Mark Station	050005A
Geodetic Azimuth	263 22 36.1
Grid Azimuth	262 38 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050005A	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,061.5980	
Easting (M)	284,773.6560	
Elevation (M)*	345.437	
Northing (SFT)	715,423.7594	
Easting (SFT)	934,294.9031	
Elevation (SFT)*	1,133.321	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	31.3658664	
Longitude	93	16	57.8468316	
Ellipsoid Height (M):	316.472			
Geoid Height (M):	-28.965			

Convergence Angle	0	44	47.1210447	
Scale Factor	1.000012138			
Elevation Adjust. Factor	0.9999457926			
Combined Adjust. Factor	0.9999579300			

Location Description

MONUMENT IS AN AHTD ALUMINUM CAP BENCHMARK ON THE N.W. CORNER OF A BRIDGE EAST OF ALPENA, CENTER PUNCHED AND STAMPED "050005A".

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	050004
Geodetic Azimuth	83 22 48.1
Grid Azimuth	82 38 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050006	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,222.7651	
Easting (M)	287,751.2880	
Elevation (M)*	383.972	
Northing (SFT)	715,952.5218	
Easting (SFT)	944,064.0174	
Elevation (SFT)*	1,259.748	

Convergence Angle	0	43	37.7368156
Scale Factor	1.000012526		
Elevation Adjust. Factor	0.9999397459		
Combined Adjust. Factor	0.9999522711		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	37.8362832
Longitude	93	14	58.6092768
Ellipsoid Height (M):	354.987		
Geoid Height (M):	-28.985		

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP OF 36"x 3/4" REBAR IN NORTH R/W OF HIGHWAY 62 APPROX 0.2 MILE WEST OF ABOVE DESCRIBED MONUMENT APPROX 100' EAST OF CULVERT AND APPROX 150' WEST OF DRIVE NORTH AND METAL PIPE GATE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN EAST FACE OF POLE	270	24.11	79.1
MK # 2	ORANGE "T" POST	355	3.82	12.5
MK # 3	PK SHINER	190	3.12	10.2

AZ Mark Station	050007A
Geodetic Azimuth	82 16 15.7
Grid Azimuth	81 32 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050007A	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,265.5591	
Easting (M)	288,039.1350	
Elevation (M)*	390.574	
Northing (SFT)	716,092.9218	
Easting (SFT)	945,008.3954	
Elevation (SFT)*	1,281.408	

Convergence Angle	0	43	31.0373241
Scale Factor	1.000012616		
Elevation Adjust. Factor	0.9999387100		
Combined Adjust. Factor	0.9999513252		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	39.3428724
Longitude	93	14	47.0961276
Ellipsoid Height (M):	361.585		
Geoid Height (M):	-28.987		

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36"x 3/4" REBAR SE OF "BAILEY MONUMENT WORKS" BUILDING IN NORTH R/W HIGHWAY 62.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN EAST FACE OF POLE	271	22.72	74.5
MK # 2	60D NAIL AT TOP OF CORNER POST	350	7.17	23.5
MK # 3	NONE			

AZ Mark Station	050006
Geodetic Azimuth	262 16 09.0
Grid Azimuth	261 32 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050008	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,905.7229	
Easting (M)	290,045.6640	
Elevation (M)*	436.044	
Northing (SFT)	714,912.3592	
Easting (SFT)	951,591.4826	
Elevation (SFT)*	1,430.588	

Convergence Angle	0	42	44.1436489
Scale Factor	1.000011965		
Elevation Adjust. Factor	0.9999315752		
Combined Adjust. Factor	0.9999435393		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	28.4864496
Longitude	93	13	26.5088352
Ellipsoid Height (M):	407.049		
Geoid Height (M):	-28.995		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PK SHINER	0	4.91	16.1
MK # 2	60D NAIL IN 4" WOOD FENCE POST		3.69	12.1
MK # 3	60D NAIL IN 4" WOOD FENCE POST		4.84	15.9

AZ Mark Station	050009A
Geodetic Azimuth	84 13 22.1
Grid Azimuth	83 30 38.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050009A	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,966.5710	
Easting (M)	290,580.5910	
Elevation (M)*	448.614	
Northing (SFT)	715,111.9917	
Easting (SFT)	953,346.4890	
Elevation (SFT)*	1,471.828	

Convergence Angle	0	42	31.6879375
Scale Factor	1.000012096		
Elevation Adjust. Factor	0.9999296028		
Combined Adjust. Factor	0.9999416979		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	30.6755664
Longitude	93	13	5.1035592
Ellipsoid Height (M):	419.615		
Geoid Height (M):	-28.999		

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR SET IN A CONCRETE POST IN THE NORTH R/W APPROX 2.25 MILES WEST OF JCT HIGHWAY 62 AND HIGHWAY 65 NE OF YELLOW FRAME HOUSE AND 62 FRUIT STAND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN POWER POLE	280	17.91	58.7
MK # 2	PK-SHINER ON NORTH SHOULDER	180	4.01	13.1
MK # 3	TELEPHONE BOX	65	19.97	65.5

AZ Mark Station	050008
Geodetic Azimuth	264 13 09.7
Grid Azimuth	263 30 38.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050010	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,012.4770	
Easting (M)	293,445.2240	
Elevation (M)*	372.816	
Northing (SFT)	715,262.6016	
Easting (SFT)	962,744.8724	
Elevation (SFT)*	1,223.147	

Convergence Angle	0	41	24.9034281
Scale Factor	1.000012254		
Elevation Adjust. Factor	0.9999414964		
Combined Adjust. Factor	0.9999537497		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	33.2993832
Longitude	93	11	10.3336512
Ellipsoid Height (M):	343.801		
Geoid Height (M):	-28.015		

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 36" x 3/4" REBAR SET IN A CONCRETE POST IN R/W ON SOUTH SIDE OF HIGHWAY 62 STATION IS 0.25 MILE WEST-SOUTHWEST OF JCT HIGHWAY 62 AND HIGHWAY 65.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PK NAIL-SHINER ON SOUTH SHOULDER	330	9.04	29.6
MK # 2	60D NAIL IN POLE WITH TRANSFORMER	230	40.75	133.7
MK # 3	"T" POST AT N END OF GATE AT FC COR	90	2.93	9.6

AZ Mark Station	050011A
Geodetic Azimuth	50 32 18.9
Grid Azimuth	49 50 54.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050011A	7/1/1993	rial Data Servic	BOONE	412	9936,009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,364.0750	
Easting (M)	293,861.9950	
Elevation (M)*	358.469	
Northing (SFT)	716,416.1361	
Easting (SFT)	964,112.2286	
Elevation (SFT)*	1,176.077	

Convergence Angle	0	41	15.2834763
Scale Factor	1.000012949		
Elevation Adjust. Factor	0.9999437477		
Combined Adjust. Factor	0.9999566960		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	44.8678176
Longitude	93	10	53.8016592
Ellipsoid Height (M):	329.450		
Geoid Height (M):	-29.021		

Location Description

MON. IS AHTD 2 1/2" ALUMINUM CAP ON 36"X 3/4" REBAR SET IN CONCRETE POST TO REACH FROM "Y" INT. E. OF GIFT SHOP, GO EAST ON GR. RD. ACROSS CREEK FOR 0.05 MILES TO BRIDGE HOUSE, TURN RIGHT @ DRIVEWAY, GO AROUND BACK OF HOUSE TO GATE @ SM. LOT, GO THRU GATE & TURN SOUTH THRU ANOTHER GATE, FOLLOW TRACK ROAD 0.2 MILES TO STA. ON RIGHT

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SOUTHWEST FACE OF 14" OAK	45 00 00	17.86	58.6
MK # 2	60D NAIL IN NORTHWEST FACE OF 6" OAK	140	15.63	51.3
MK # 3	60D IN NORTHWEST MOST POST OF BEAR CREEK SIGN	180	38.72	127.0

AZ Mark Station	050010
Geodetic Azimuth	230 32 09 3
Grid Azimuth	229 50 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050012	6/26/1996	AHTD	BOONE	65	0098,Mobile LiDAR-CLS,090

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	201,753.3376	
Easting (M)	311,314.4363	
Elevation (M)*		
Northing (SFT)	661,919.0751	
Easting (SFT)	1,021,370.7798	
Elevation (SFT)*		

Convergence Angle	0	34	24.4215265
Scale Factor	0.999984220		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	36	8	52.2350628
Longitude	92	59	7.7277408
Ellipsoid Height:	304.411		
Grid Northing (Meters)	201,753.6700		
Grid Easting (Meters)	311,314.5190		

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	36	8	52.2242520
Longitude	92	59	7.7309160
Ellipsoid Height (M):	305.351		
Geoid Height (M):	-28.223		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN VALLEY SPRINGS, GO SOUTH ON U.S. HWY-65 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE RIGHT AT A PAVED PULL OFF. 17.45 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.74 METERS NORTHEAST OF A WITNESS POST SET NEAR A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "050012 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE	150	21.98	72.1
MK # 2	METAL PIPE FENCE POST	326	27.86	91.4
MK # 3	NONE			

AZ Mark Station	050012A
Geodetic Azimuth	328 49 03.97589
Grid Azimuth	329 23 28.36283

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050012 - ADS	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	220,126.0510	
Easting (M)	292,277.3890	
Elevation (M)*	414.501	
Northing (SFT)	722,196.8857	
Easting (SFT)	958,913.4004	
Elevation (SFT)*	1,359.909	

Convergence Angle	0	41	52.7355835
Scale Factor	1.000016391		
Elevation Adjust. Factor	0.9999349555		
Combined Adjust. Factor	0.9999513454		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	18	41.4046008	
Longitude	93	11	58.1635140	
Ellipsoid Height (M):	385.472			
Geoid Height (M):	-29.029			

Location Description

MONUMENT IS AHTD CAP ATOP 36" DEEP CONCRETE POST ON EAST SIDE OF US HIGHWAY 65 OPPOSITE GUARDRAIL AND ON WEST SIDE OF AUTO SALVAGE YARD. STATION IS APPROX. 200' SOUTH OF INTERSECTION OF US HWY. 65 AND BOONE COUNTY ROAD 13 IN SE 1/4 OF SECTION 10, T. 19N, R. 21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO CENTER OF CATCH BASIN		5.08	16.7
MK # 2	60D IN SOUTH FACE OF UTILITY POLE		7.96	26.1
MK # 3	TO EDGE OF US HWY. 65		3.33	10.9

AZ Mark Station	050013A
Geodetic Azimuth	324 06 28.7356
Grid Azimuth	323 24 36.00000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050012A	6/26/1996	AHTD	BOONE	65	0098,Mobile LiDAR-CLS,090

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	202,094.0880	
Easting (M)	311,112.8380	
Elevation (M)*		
Northing (SFT)	663,037.0204	
Easting (SFT)	1,020,709.3693	
Elevation (SFT)*		

Convergence Angle	0	34	29.1935859
Scale Factor			0.999984745
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	36	9	3.2135040
Longitude	92	59	15.9317520
Ellipsoid Height (M):	300.700		
Geoid Height (M):	-28.221		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN VALLEY SPRINGS, GO SOUTH ON U.S. HWY-65 FOR 0.32 KM. (0.20 MI.) TO THE STATION ON THE LEFT. 19.20 METERS NORTHEAST OF THE CENTER OF HWY-65 AND 0.90 METERS SOUTHWEST OF A WITNESS POST SET IN A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "050012A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	36	9	3.2243328
Longitude	92	59	15.9282420
Ellipsoid Height:	299.757		
Grid Northing (Meters)	202,094.4209		
Grid Easting (Meters)	311,112.9290		

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL PIPE FENCE POST	138	28.04	92.0
MK # 2	METAL PIPE FENCE POST	320	40.80	133.9
MK # 3	NONE			

AZ Mark Station	050012
Geodetic Azimuth	148 48 59.13847
Grid Azimuth	149 23 28.36283

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050013A	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	220,695.8850	
Easting (M)	291,854.3500	
Elevation (M)*	422.456	
Northing (SFT)	724,066.4160	
Easting (SFT)	957,525.4800	
Elevation (SFT)*	1,386.008	

Convergence Angle	0	42	2.7649627
Scale Factor	1.000017523		
Elevation Adjust. Factor	0.9999337073		
Combined Adjust. Factor	0.9999512291		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	59.7223512
Longitude	93	12	15.3991116
Ellipsoid Height (M):	393.425		
Geoid Height (M):	-29.032		

Location Description

MONUMENT IS AHTD CAP ATOP 36" DEEP CONCRETE POST EAST OF US HWY. 65 AND W OF RIDGEWAY CHURCH OF CHRIST APPROX. 300' SOUTH EAST OF RIDGEWAY SCHOOL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO SW CORNER OF CHURCH		29.95	98.3
MK # 2	60D IN WEST FACE OF POWER POLE		5.62	18.4
MK # 3	60D NAIL IN LEFT LANE ENDS SIGN POLE		52.24	171.4

AZ Mark Station	050012
Geodetic Azimuth	144 06 38.765
Grid Azimuth	173 24 36.000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050014	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	222,787.0441	
Easting (M)	292,107.6420	
Elevation (M)*	417.223	
Northing (SFT)	730,927.1605	
Easting (SFT)	958,356.4888	
Elevation (SFT)*	1,368.839	

Convergence Angle	0	41	57.4522344
Scale Factor	1.000021789		
Elevation Adjust. Factor	0.9999345284		
Combined Adjust. Factor	0.9999563160		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	7.6590816
Longitude	93	12	6.2691300
Ellipsoid Height (M):	388.169		
Geoid Height (M):	-29.054		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST ON EAST SIDE OF HWY. 65 2' SW OF AHTD WITNESS POST APPROX. 75' NW OF SIGNS "GASTON'S AND EUREKA SPRINGS GARDENS".

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN NW FACE OF SIGN POLE		16.74	54.9
MK # 2	TO EDGE OF US HWY. 65		8.43	27.7
MK # 3	TO PK AND SHINER		8.17	26.8

AZ Mark Station	050015A
Geodetic Azimuth	341 30 26.4522
Grid Azimuth	340 48 29.0000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050015A	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	223,206.6504	
Easting (M)	291,961.5855	
Elevation (M)*	412.102	
Northing (SFT)	732,303.8189	
Easting (SFT)	957,877.3018	
Elevation (SFT)*	1,352.038	

Convergence Angle	0	42	0.9794872
Scale Factor	1.000022653		
Elevation Adjust. Factor	0.9999353319		
Combined Adjust. Factor	0.9999579835		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	21.2130060
Longitude	93	12	12.3307524
Ellipsoid Height (M):	383.046		
Geoid Height (M):	-29.057		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST ON EAST SIDE OF HWY. 65 - 2' SW OF AHTD WITNESS POST IN THE NW SECTION 3, T 19N, R 21W

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SOUTH FACE OF SIGN POLE		7.47	24.5
MK # 2	60D NAIL IN NORTH FACE OF POLE		18.14	59.5
MK # 3	PK AND SHINER AT EAST EDGE OF ROAD		15.55	51.0

AZ Mark Station	050014
Geodetic Azimuth	161 30 29.979
Grid Azimuth	160 48 29.000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050016	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	226,398.2211	
Easting (M)	290,475.5718	
Elevation (M)*	425.958	
Northing (SFT)	742,774.8304	
Easting (SFT)	953,001.9385	
Elevation (SFT)*	1,397.497	

Convergence Angle	0	42	36.5737674
Scale Factor	1.000029357		
Elevation Adjust. Factor	0.9999331578		
Combined Adjust. Factor	0.9999625128		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	4.1516400
Longitude	93	13	13.4999112
Ellipsoid Height (M):	396.878		
Geoid Height (M):	-29.081		

Location Description

AHTD 2 1/2" ALUMINUM CAP IN 36" X 3/4" REBAR IN A CONCRETE POST ON WEST SIDE OF HWY. 65 IN NW 1/4 SECTION 28, T 20N, R 21W APPROX. 5' EAST OF AHTD WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PK AND SHINER AT EDGE OF ROAD		2.91	9.5
MK # 2	60D NAIL IN POLE		22.82	74.9
MK # 3	60D NAIL IN LIGHT POLE		26.19	85.9

AZ Mark Station	050017A
Geodetic Azimuth	332 31 20 5738
Grid Azimuth	331 48 44.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050017A	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	226,666.5399	
Easting (M)	290,331.7741	
Elevation (M)*	429.165	
Northing (SFT)	743,655.1397	
Easting (SFT)	952,530.1622	
Elevation (SFT)*	1,408.019	

Convergence Angle	0	42	40.0077517
Scale Factor	1.000029932		
Elevation Adjust. Factor	0.9999326546		
Combined Adjust. Factor	0.9999625845		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	12.7977636
Longitude	93	13	19.4012508
Ellipsoid Height (M):	400.082		
Geoid Height (M):	-29.083		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST NE OF HWY. 65 WEST OF TAN HOUSE IN SW 1/4, SECTION 21, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO SW CORNER OF CONCRETE PORCH		15.55	51.0
MK # 2	60D NAIL IN NW FACE OF POLE		30.62	100.5
MK # 3	PK & SHINER AR EDGE OF US HWY. 65		2.76	9.0

AZ Mark Station	050016
Geodetic Azimuth	152 31 24.0078
Grid Azimuth	151 48 44.0000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050018	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	228,171.9633	
Easting (M)	289,988.0844	
Elevation (M)*	455.759	
Northing (SFT)	748,594.1829	
Easting (SFT)	951,402.5736	
Elevation (SFT)*	1,495.269	

Convergence Angle	0	42	48.4673105
Scale Factor	1.000033201		
Elevation Adjust. Factor	0.9999284817		
Combined Adjust. Factor	0.9999616803		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	1.4933400
Longitude	93	13	33.9390948
Ellipsoid Height (M):	426.663		
Geoid Height (M):	-29.096		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR ON EAST R/W HWY. 65 APPROX. 0.3 MILES NORTH OF BURLINGTON GENERAL STORE IN SE 1/4, SECTION 17, T20N, R21W, EAST IF DRIVEWAY WEST TI "SAMMY'S ROCK SHOP WITH AHTD WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO EDGE OF US HWY. 65		5.72	18.7
MK # 2	TO EDGE OF US HWY. 65		5.01	16.4
MK # 3	60D NAIL IN NE FACE OF RR CORNER POST		25.95	85.1

AZ Mark Station	050019A
Geodetic Azimuth	280 04 10.4673
Grid Azimuth	272 12 2.0000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050019A	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	228,437.0759	
Easting (M)	290,125.2479	
Elevation (M)*	451.818	
Northing (SFT)	749,463.9732	
Easting (SFT)	951,852.5842	
Elevation (SFT)*	1,482.340	

Convergence Angle	0	42	45.3422391
Scale Factor	1.000033788		
Elevation Adjust. Factor	0.9999291001		
Combined Adjust. Factor	0.9999628857		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	23	10.1486292	
Longitude	93	13	28.5686256	
Ellipsoid Height (M):	422.718			
Geoid Height (M):	-29.100			

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SE OF INTERSECTION HWY. 65 AND DRIVE EAST TO BROWN HOUSE IN SE 1/4, SECTION 17 - T20N, R21W, 2' WEST OF AHTD WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO PIPE CORNER POST		9.13	30.0
MK # 2	TO PIPE CORNER POST		1.81	6.0
MK # 3	TO PIPE POST		1.27	4.2

AZ Mark Station	050018
Geodetic Azimuth	208 04 07.3422
Grid Azimuth	207 21 22.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050020	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	231,782.4226	
Easting (M)	290,327.0352	
Elevation (M)*	456.416	
Northing (SFT)	760,439.4981	
Easting (SFT)	952,514.6147	
Elevation (SFT)*	1,497.425	

Convergence Angle	0	42	41.6013758
Scale Factor	1.000041302		
Elevation Adjust. Factor	0.9999283786		
Combined Adjust. Factor	0.9999696776		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	58.7480616
Longitude	93	13	22.1399112
Ellipsoid Height (M):	427.834		
Geoid Height (M):	-29.134		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36' X 3/4" REBAR SET IN A CONCRETE POST ON WEST SIDE OF HWY. 65. 2' N-NW OF AHTD WITNESS POST -NOTE- MONUMENT IS INTERVISIBLE WITH POINT 344 AND MAY BE INTERVISIBLE WITH MONUMENT 050030.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO NORTHMOST GUARDRAIL POST		23.92	78.5
MK # 2	TO CONCRETE R/W MARKER		15.53	50.9
MK # 3	NONE			

AZ Mark Station	050021A
Geodetic Azimuth	280 58 47.6014
Grid Azimuth	280 16 06.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050021A	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	232,052.5099	
Easting (M)	288,836.1709	
Elevation (M)*	479.134	
Northing (SFT)	761,325.6096	
Easting (SFT)	947,623.3374	
Elevation (SFT)*	1,571.959	

Convergence Angle	0	43	16.4988378
Scale Factor	1.000041878		
Elevation Adjust. Factor	0.9999248139		
Combined Adjust. Factor	0.9999666888		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	6.9045060
Longitude	93	14	22.1115804
Ellipsoid Height (M):	450.004		
Geoid Height (M):	-29.130		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR ON EAST SIDE OF PAVED RD. 1.7' WEST OF WITNESS POST, THE ROAD IS KNOWN AS "TOWER RD."

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PK & SHINER AT EDGE OF CR 18		4.91	16.1
MK # 2	PK & SHINER AT EDGE OF CR 18		5.84	19.2
MK # 3	NONE			

AZ Mark Station	050020
Geodetic Azimuth	100 59 22.4988
Grid Azimuth	100 16 06.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050022	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,520.5638	
Easting (M)	290,013.6412	
Elevation (M)*	411.344	
Northing (SFT)	769,422.8831	
Easting (SFT)	951,486.4212	
Elevation (SFT)*	1,349.551	

Convergence Angle	0	42	49.7171970
Scale Factor	1.000047646		
Elevation Adjust. Factor	0.9999354509		
Combined Adjust. Factor	0.9999830938		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	27.4417980
Longitude	93	13	36.0870384
Ellipsoid Height (M):	382.175		
Geoid Height (M):	-29.159		

Location Description

AHTD 2 1/2 " ALUMINUM CAP ON 36" X 3/4" REBAR SIT IN CONCRETE POST IN OPEN FIELD SOUTH OF "L" CURVE IN DIRT ROAD IN SE 1/3, SECTION 29, T21N, R 21W, MONUMENT IS ON PROPERTY OWNED BY MR. COOK WHO LOVES IN SECOND HOUSE NORTH OF "L" CURVE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WITNESS POST BY 8" PINE		20.58	67.5
MK # 2	60D NAIL IN NORTH FACE OF 6" HICKORY		48.40	158.8
MK # 3	60D NAIL IN NORTH FACE OF 6" HICKORY		30.63	100.5

AZ Mark Station	050023A
Geodetic Azimuth	328 47 19.7172
Grid Azimuth	328 04 30.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050023A	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,759.0585	
Easting (M)	289,865.0470	
Elevation (M)*	418.475	
Northing (SFT)	770,205.3444	
Easting (SFT)	950,998.9084	
Elevation (SFT)*	1,372.947	

Convergence Angle	0	42	53.2580976
Scale Factor	1.000048204		
Elevation Adjust. Factor	0.9999343319		
Combined Adjust. Factor	0.9999825328		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	35.1179808
Longitude	93	13	42.1721148
Ellipsoid Height (M):	389.316		
Geoid Height (M):	-29.160		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36' X 3/4" REBAR SET IN CONCRETE POST IN NORTH R/W OF DIRT ROAD APPROX. 600' WEST OF "L" CURVE IN SE 1/4 SECTION 29, T21N, R 21W, NEAT HIGHEST POINT OF HILL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN NW FACE OF 12" CEDAR		11.00	36.1
MK # 2	60D NAIL IN NORTH FACE OF 4" CEDAR		6.90	22.6
MK # 3	NONE			

AZ Mark Station	050022
Geodetic Azimuth	148 47 23.2581
Grid Azimuth	148 04 30.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050024	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	236,275.1300	
Easting (M)	290,608.6678	
Elevation (M)*	399.304	
Northing (SFT)	775,179.3223	
Easting (SFT)	953,438.6043	
Elevation (SFT)*	1,310.050	

Convergence Angle	0	42	36.3244692
Scale Factor	1.000051833		
Elevation Adjust. Factor	0.9999373401		
Combined Adjust. Factor	0.9999891699		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	27	24.5960172
Longitude	93	13	13.0714896
Ellipsoid Height (M):	370.126		
Geoid Height (M):	-29.178		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36' X 3/4" REBAR SET IN A CONCRETE POST ON RIDGE APPROX. 450' WEST NE OF GRAVEL ROAD. IN SW 1/2 SECTION 21, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SW FACE OF 10" OAK TREE		48.14	157.9
MK # 2	60 D NAIL IN WEST FACE OF 5" PINE TREE		44.92	147.4
MK # 3	NONE			

AZ Mark Station	050024A
Geodetic Azimuth	351 17 31.3245
Grid Azimuth	350 34 55.000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050025A	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	237,390.6238	
Easting (M)	290,423.6404	
Elevation (M)*	379.157	
Northing (SFT)	778,839.0716	
Easting (SFT)	952,831.5602	
Elevation (SFT)*	1,243.951	

Convergence Angle	0	42	40.9714961
Scale Factor	1.000054518		
Elevation Adjust. Factor	0.9999405014		
Combined Adjust. Factor	0.9999950162		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	28	0.7056012
Longitude	93	13	21.0574560
Ellipsoid Height (M):	349.970		
Geoid Height (M):	-29.187		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST NEAT NORTH 1/32ND CORNER SECTION 20+21, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO SE CORNER OF CONCRETE FOUNDATIO N		28.29	92.8
MK # 2	60D NAIL IN EAST FACE OF TRANSFORMER POLE		52.34	171.7
MK # 3	NONE			

AZ Mark Station	050024
Geodetic Azimuth	171 17 35.9715
Grid Azimuth	170 34 55.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050026	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	239,048.0493	
Easting (M)	290,531.4921	
Elevation (M)*	404.315	
Northing (SFT)	784,276.8084	
Easting (SFT)	953,185.4037	
Elevation (SFT)*	1,326.490	

Convergence Angle	0	42	38.9316361
Scale Factor	1.000058576		
Elevation Adjust. Factor	0.9999365538		
Combined Adjust. Factor	0.9999951261		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	28	54.5117700
Longitude	93	13	17.5519344
Ellipsoid Height (M):	375.113		
Geoid Height (M):	-29.202		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR IN CONCRETE POST. 1.7' SOUTH OF AHTD WITNESS POST, ON TOP OF RIDGE EAST OF LARGE DRAIN IN NW 1/4, SECTION 16, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN W FACE OF TREE		49.49	162.4
MK # 2	60D NAIL IN N FACE OF 24" MAPLE		50.13	164.5
MK # 3	60D NAIL IN NE FACE OF 18" MAPLE		67.03	219.9

AZ Mark Station	050027A
Geodetic Azimuth	234 58 30.9316
Grid Azimuth	234 15 52.0000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050027A	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	238,795.0522	
Easting (M)	290,179.8696	
Elevation (M)*	405.101	
Northing (SFT)	783,446.7671	
Easting (SFT)	952,031.7888	
Elevation (SFT)*	1,329.069	

Convergence Angle	0	42	47.0767033
Scale Factor	1.000057942		
Elevation Adjust. Factor	0.9999364305		
Combined Adjust. Factor	0.9999943688		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	28	46.1634672
Longitude	93	13	31.5493212
Ellipsoid Height (M):	375.902		
Geoid Height (M):	-29.199		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST IN NE 1/4 SECTION 17, T21N, R21W, APPROX. 400' SOUTH OF SMALL POND. 1.6' SOUTH OF AHTD WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAILIN NW FACE OF 36" TWIN OAK TR EE		37.62	123.4
MK # 2	60D NAIL IN N FACE OF 30" OAK		38.68	126.9
MK # 3	NONE			

AZ Mark Station	050026
Geodetic Azimuth	545 83 90.767
Grid Azimuth	541 55 02.000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050028	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	240,182.5979	
Easting (M)	290,499.3297	
Elevation (M)*	421.372	
Northing (SFT)	787,999.0733	
Easting (SFT)	953,079.8842	
Elevation (SFT)*	1,382.451	

Convergence Angle	0	42	40.0125301
Scale Factor	1.000061390		
Elevation Adjust. Factor	0.9999338774		
Combined Adjust. Factor	0.9999952633		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	31.3005480
Longitude	93	13	19.4094624
Ellipsoid Height (M):	392.159		
Geoid Height (M):	-29.212		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON A 36" X 3/4" REBAR SET IN A CONCRETE POST ON WEST SIDE OF HWY. 65 APPROX. 0.25 MILE SOUTH OF JCT. HWY. 65 AND HWY. 14, NEAR 1/4 CORNER 8+9, T21N, R21W, STATION IS LOCATED AT WHAT APPEARS TO BE AN ABANDONED REST STOP.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE CORNER OF CONCRETE SLAB		24.57	80.6
MK # 2	SE CORNER OF CONCRETE SLAB		19.48	63.9
MK # 3	60D NAIL IN SOUTH FACE OF POST		27.52	90.3

AZ Mark Station	050029A
Geodetic Azimuth	358 47 59.0125
Grid Azimuth	358 05 19.0000

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	05009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050030	4/1/1994	rial Data Servic	BOONE	65	9936

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	230,590.5526	
Easting (M)	289,593.0837	
Elevation (M)*	468.146	
Northing (SFT)	756,529.1713	
Easting (SFT)	950,106.6421	
Elevation (SFT)*	1,535.909	

Convergence Angle	0	42	58.3943297
Scale Factor	1.000038574		
Elevation Adjust. Factor	0.9999265380		
Combined Adjust. Factor	0.9999651092		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	19.7890812
Longitude	93	13	50.9987856
Ellipsoid Height (M):	439.027		
Geoid Height (M):	-29.119		

Location Description

AHTD 2 1/2" ALUMINUM CAP ON 36" X 3/4" REBAR SET IN A CONCRETE POST APPROX. 500' WEST OF JCT. HWY. 65 AND TOWER ROAD IN NORTH R/W - 1.65' SOUTH OF AHTD WITNESS POST AND SOUTHWEST OF LARGE WHITE COMMERCIAL BUILDING. NOTE AZIMUTH MARK IS MONUMENT 050021A.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN CORNER POST		21.23	69.6
MK # 2	60D NAIL IN NORTH FACEE OF ELM TREE		15.80	51.9
MK # 3	NONE			

AZ Mark Station	050021A
Geodetic Azimuth	333 20 37.3943
Grid Azimuth	332 37 39.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	THOMASON
Ref Mon # 3	050009A & 050010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050031	12/6/2002	AHTD	BOONE	62	090152

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	208,319.9400	
Easting (M)	309,611.9640	
Elevation (M)*	357.736	
Northing (SFT)	683,463.0032	
Easting (SFT)	1,015,785.2519	
Elevation (SFT)*	1,173.673	

Convergence Angle	0	35	5.6092893
Scale Factor			0.999994878
Elevation Adjust. Factor			0.9999438627
Combined Adjust. Factor			0.9999387410

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	24.7005504
Longitude	93	0	18.5125356
Ellipsoid Height (M):	329.436		
Geoid Height (M):	-28.231		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62, LOCATED IN BELLEFONTE JUST NORTH OF THE A.H.T.D. DISTRICT 9 HEADQUARTERS, GO EAST ON U.S. HIGHWAY 62 FOR 2.00 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 7.70 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, AND 0.63 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "050031 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LOG MILE 2.00 SIGN POST	15	5.25	17.2
MK # 2	CORNER POST	251	3.25	10.7
MK # 3	WOOD FENCE POST	228	4.00	13.1

AZ Mark Station	050031A
Geodetic Azimuth	90 21 30
Grid Azimuth	90 56 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR1
Ref Mon # 2	Russport
Ref Mon # 3	Butler

Comments

3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050031A	12/6/2002	AHTD	BOONE	62	090152

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	208,311.6900	
Easting (M)	310,112.9830	
Elevation (M)*	366.938	
Northing (SFT)	683,435.9363	
Easting (SFT)	1,017,429.0117	
Elevation (SFT)*	1,203.863	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	12	24.5983752	
Longitude	92	59	58.4532240	
Ellipsoid Height (M):	338.626			
Geoid Height (M):	-28.233			

Convergence Angle	0	34	53.9367933	
Scale Factor	0.999994872			
Elevation Adjust. Factor	0.9999424187			
Combined Adjust. Factor	0.9999372910			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62, LOCATED IN BELLEFONTE JUST NORTH OF THE A.H.T.D. DISTRICT 9 HEADQUARTERS, GO EAST ON U.S. HIGHWAY 62 FOR 2.31 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 62 AND 2.88 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "050031A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	48	4.55	14.9
MK # 2	POWER POLE WITH GUY WIRE	280	13.50	44.3
MK # 3				

AZ Mark Station	050031
Geodetic Azimuth	270 21 42
Grid Azimuth	270 56 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR1
Ref Mon # 2	Russport
Ref Mon # 3	Butler

Comments

3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050032	10/30/2003	AHTD	NEWTON	7	090225,090221

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	201,011.2079	
Easting (M)	299,069.4840	
Elevation (M)*	372.820	
Northing (SFT)	659,484.2713	
Easting (SFT)	981,197.1321	
Elevation (SFT)*	1,223.161	

Convergence Angle	0	39	9.2394824
Scale Factor	0.999982880		
Elevation Adjust. Factor	0.9999414958		
Combined Adjust. Factor	0.9999243768		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	23.8974468
Longitude	93	7	17.1936804
Ellipsoid Height (M):	344.644		
Geoid Height (M):	-28.148		

Location Description

THE STATION MARK IS LOCATED AT THE NORTHEAST CORNER OF THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 206, SOUTH OF HARRISON, NORTH OF EAST 206 30.0 METERS, EAST 11.10 METERS OF HIGHWAY 7 AND WEST 1.0 METERS OF A WITNESS POST. THE STATION MARK IS A STANDA

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	158	19.05	62.5
MK # 2				
MK # 3				

AZ Mark Station	050032A
Geodetic Azimuth	165 32 10
Grid Azimuth	166 11 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARP 2
Ref Mon # 2	W.H. PHILLIPS
Ref Mon # 3	ARHR

Comments

3-Wire Level Elevations were ran from NGS BM L18 - TT107TX in Job 090225 by S5110 in May 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050032A	10/30/2003	AHTD	NEWTON	7	090225,090221

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	200,420.5969	
Easting (M)	299,214.6750	
Elevation (M)*	381.070	
Northing (SFT)	657,546.5750	
Easting (SFT)	981,673.4796	
Elevation (SFT)*	1,250.227	

Convergence Angle	0	39	5.7040073
Scale Factor	0.999981987		
Elevation Adjust. Factor	0.9999402013		
Combined Adjust. Factor	0.9999221893		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	4.7903712
Longitude	93	7	11.1179280
Ellipsoid Height (M):	352.890		
Geoid Height (M):	-28.147		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 206, SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 7 0.35 MILES TO THE STATION ON THE RIGHT, WEST 12.5 METERS FROM THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.00 METERS OF A WITNESS POST. THE

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	050032
Geodetic Azimuth	345 32 14
Grid Azimuth	346 11 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARP 2
Ref Mon # 2	W.H. PHILLIPS
Ref Mon # 3	ARHR

Comments

3-Wire Level Elevations were ran from NGS BM L18 - TT107TX in Job 090225 by S5110 in May 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050201	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,883.3251	
Easting (M)	282,986.4120	
Elevation (M)*	353.062	
Northing (SFT)	718,119.7091	
Easting (SFT)	928,431.2534	
Elevation (SFT)*	1,158.338	

Convergence Angle	0	45	29.0489385
Scale Factor	1.000013697		
Elevation Adjust. Factor	0.9999445961		
Combined Adjust. Factor	0.9999582924		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	57.2611200
Longitude	93	18	9.9003744
Ellipsoid Height (M):	324.100		
Geoid Height (M):	-28.962		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050203	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,709.1410	
Easting (M)	283,446.5200	
Elevation (M)*	338.514	
Northing (SFT)	717,548.2401	
Easting (SFT)	929,940.7910	
Elevation (SFT)*	1,110.608	

Convergence Angle	0	45	18.2657825
Scale Factor	1.000013367		
Elevation Adjust. Factor	0.9999468789		
Combined Adjust. Factor	0.9999602452		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	51.8077716
Longitude	93	17	51.3694032
Ellipsoid Height (M):	309.551		
Geoid Height (M):	-28.963		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON WEST SIDE OF WPA ROAD APPROX 600' NORTH OF BRIDGE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN POLE		16.89	55.4
MK # 2	NONE		5.88	19.3
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050204	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,132.2680	
Easting (M)	283,344.1870	
Elevation (M)*	358.387	
Northing (SFT)	715,655.6159	
Easting (SFT)	929,605.0535	
Elevation (SFT)*	1,175.808	

Convergence Angle	0	45	20.4746853
Scale Factor	1.000012239		
Elevation Adjust. Factor	0.9999437606		
Combined Adjust. Factor	0.9999559989		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	33.0504864
Longitude	93	17	55.1654268
Ellipsoid Height (M):	329.430		
Geoid Height (M):	-28.957		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050205	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,600.2261	
Easting (M)	284,496.1880	
Elevation (M)*	341.641	
Northing (SFT)	717,190.9085	
Easting (SFT)	933,384.5768	
Elevation (SFT)*	1,120.867	

Convergence Angle	0	44	53.7550013
Scale Factor	1.000013181		
Elevation Adjust. Factor	0.9999463883		
Combined Adjust. Factor	0.9999595686		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	48.7213584
Longitude	93	17	9.2473584
Ellipsoid Height (M):	312.672		
Geoid Height (M):	-28.969		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN ALFALFA FIELD APPROX 500' EAST OF WEST END OF FIELD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SMALL 3" TREE		31.30	102.7
MK # 2	SMALL PERSIMMON		28.10	92.2
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050206	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,230.0541	
Easting (M)	284,141.5400	
Elevation (M)*	347.268	
Northing (SFT)	715,976.4358	
Easting (SFT)	932,221.0358	
Elevation (SFT)*	1,139.328	

Convergence Angle	0	45	1.9119986
Scale Factor			1.000012449
Elevation Adjust. Factor			0.9999455053
Combined Adjust. Factor			0.9999579536

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	36.5626356	
Longitude	93	17	23.2652472	
Ellipsoid Height (M):	318.305			
Geoid Height (M):	-28.963			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON EAST SIDE OF SOUTH DENTON STREET WEST OF MOBILE HOME AND SOUTH OF MINISTORAGE BUILDING.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN POWER POLE		10.82	35.5
MK # 2	60D IN POLE SE OF GRAY STONE HOUSE		23.96	78.6
MK # 3	SW CORNER OF OFF WHITE MOBILE HOME		16.64	54.6

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050207	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,239.5661	
Easting (M)	284,601.3590	
Elevation (M)*	339.496	
Northing (SFT)	716,007.6431	
Easting (SFT)	933,729.6253	
Elevation (SFT)*	1,113.830	

Convergence Angle	0	44	51.1927666
Scale Factor			1.000012479
Elevation Adjust. Factor			0.9999467248
Combined Adjust. Factor			0.9999592032

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	37.0662180
Longitude	93	17	4.8441300
Ellipsoid Height (M):	310.530		
Geoid Height (M):	-28.966		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "207" DRIVEN FLUSH WITH GROUND IN HAY FIELD APPROX 775' EAST OF US HIGHWAY 62.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL AT BASE OF FLAGGED "T" POST			
MK # 2	60D NAIL IN W FACE OF 18" OAK			
MK # 3	60D NAIL AT BASE OF FLAGGED "T" POST			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050208	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,747.3120	
Easting (M)	284,611.3780	
Elevation (M)*	340.565	
Northing (SFT)	714,392.6395	
Easting (SFT)	933,762.4960	
Elevation (SFT)*	1,117.337	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	21.1018920	
Longitude	93	17	4.1852940	
Ellipsoid Height (M):	311.604			
Geoid Height (M):	-28.961			

Convergence Angle	0	44	50.8093905	
Scale Factor	1.000011524			
Elevation Adjust. Factor	0.9999465571			
Combined Adjust. Factor	0.9999580805			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "208" DRIVEN FLUSH ON WEST SIDE OF HAY FIELD 81.47' EAST OF RIGHT OF WAY FENCE.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN WEST FACE OF 8" ELM		53.68	176.1
MK # 2	60D NAIL IN EAST FACE OF 8" POST		24.83	81.5
MK # 3	60D NAIL IN EAST FACE OF 4" SUMACK		41.94	137.6

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050209	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,206.7561	
Easting (M)	285,413.6690	
Elevation (M)*	350.980	
Northing (SFT)	715,899.9990	
Easting (SFT)	936,394.6790	
Elevation (SFT)*	1,151.507	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	36.3444900
Longitude	93	16	32.2757112
Ellipsoid Height (M):	322.010		
Geoid Height (M):	-28.971		

Convergence Angle	0	44	32.2412321
Scale Factor	1.000012436		
Elevation Adjust. Factor	0.9999449228		
Combined Adjust. Factor	0.9999573581		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN PASTURE NW OF WHITE FARM HOUSE APPROX 500' NORTH OF HIGHWAY 62.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 12" OAK		39.01	128.0
MK # 2	NW CORNER OF SMALL WOOD BUILDING		50.17	164.6
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050210	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,898.5760	
Easting (M)	285,500.5020	
Elevation (M)*	375.638	
Northing (SFT)	714,888.9114	
Easting (SFT)	936,679.5636	
Elevation (SFT)*	1,232.406	

Convergence Angle	0	44	30.1234148
Scale Factor	1.000011839		
Elevation Adjust. Factor	0.9999410536		
Combined Adjust. Factor	0.9999528919		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	26.3836968
Longitude	93	16	28.6362192
Ellipsoid Height (M):	346.546		
Geoid Height (M):	-28.968		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN CLEARING ON NORTHSIDE OF TRACK ROAD APPROX 100' SW OF OLD 2 TON FORD TRUCK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 6" PERSIMMON		19.11	62.7
MK # 2	60D NAIL IN SMALL EVERGREEN		26.21	86.0
MK # 3	CENTER LINE OF TRACK ROAD		5.64	18.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050211	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,420.0320	
Easting (M)	286,308.7750	
Elevation (M)*	367.059	
Northing (SFT)	716,599.7217	
Easting (SFT)	939,331.3726	
Elevation (SFT)*	1,204.259	

Convergence Angle	0	44	11.4329138
Scale Factor	1.000012875		
Elevation Adjust. Factor	0.9999423998		
Combined Adjust. Factor	0.9999552741		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	43.6378416
Longitude	93	15	56.5163892
Ellipsoid Height (M):	338.081		
Geoid Height (M):	-28.978		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN EAST R/W OF BLACKTOP ROAD APPROX 0.2 MILE N -NE OF HIGHWAY 62.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL		5.24	17.2
MK # 2	60D NAIL		5.46	17.9
MK # 3	WEST OF FENCE		1.62	5.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050212	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,875.5340	
Easting (M)	286,091.2100	
Elevation (M)*	400.383	
Northing (SFT)	714,813.3145	
Easting (SFT)	938,617.5781	
Elevation (SFT)*	1,313.590	

Convergence Angle	0	44	16.3427379
Scale Factor	1.000011810		
Elevation Adjust. Factor	0.9999371708		
Combined Adjust. Factor	0.9999489801		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	25.8836532
Longitude	93	16	4.9539756
Ellipsoid Height (M):	371.411		
Geoid Height (M):	-28.972		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050213	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,404.3380	
Easting (M)	287,397.2990	
Elevation (M)*	400.035	
Northing (SFT)	716,548.2323	
Easting (SFT)	942,902.6385	
Elevation (SFT)*	1,312.448	

Convergence Angle	0	43	46.0451606
Scale Factor	1.000012871		
Elevation Adjust. Factor	0.9999372254		
Combined Adjust. Factor	0.9999500956		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	43.5804936
Longitude	93	15	12.8872584
Ellipsoid Height (M):	371.050		
Geoid Height (M):	-28.985		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP APPROX 250' NW OF GATE ON SIDE OF HILL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN LONE 4" SYCAMORE		12.89	42.3
MK # 2	60D NAIL IN 6" TREE		26.09	85.6
MK # 3	60D NAIL IN 12" SYCAMORE		28.90	94.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050215	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,549.6561	
Easting (M)	288,435.8110	
Elevation (M)*	403.446	
Northing (SFT)	717,024.9967	
Easting (SFT)	946,309.8233	
Elevation (SFT)*	1,323.639	

Convergence Angle	0	43	21.8710051
Scale Factor	1.000013181		
Elevation Adjust. Factor	0.9999366902		
Combined Adjust. Factor	0.9999498703		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	48.7215384	
Longitude	93	14	31.3437084	
Ellipsoid Height (M):	374.454			
Geoid Height (M):	-28.992			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN CLEARING NORTH OF ANTIQUE STORE (LITTLE ARKANSAW ANTIQUES).

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 3" TREE		42.92	140.8
MK # 2	60D NAIL IN TOP OF STUMP		22.74	74.6
MK # 3	60D NAIL IN 8"' OAK		56.85	186.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050216	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,883.4130	
Easting (M)	288,173.9540	
Elevation (M)*	438.327	
Northing (SFT)	714,839.1642	
Easting (SFT)	945,450.7141	
Elevation (SFT)*	1,438.078	

Convergence Angle	0	43	27.7808813
Scale Factor	1.000011876		
Elevation Adjust. Factor	0.9999312169		
Combined Adjust. Factor	0.9999430921		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	27.0014496
Longitude	93	14	41.4998952
Ellipsoid Height (M):	409.343		
Geoid Height (M):	-28.984		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP SW OF FRED MATHIS RESIDENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 14" PECAN TREE		33.71	110.6
MK # 2	60D NAIL IN 12" PECAN TREE		23.71	77.8
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050217	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,141.4471	
Easting (M)	288,994.0900	
Elevation (M)*	437.727	
Northing (SFT)	715,685.7310	
Easting (SFT)	948,141.4436	
Elevation (SFT)*	1,436.109	

Convergence Angle	0	43	8.7328607
Scale Factor	1.000012398		
Elevation Adjust. Factor	0.9999313111		
Combined Adjust. Factor	0.9999437082		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	35.7071928
Longitude	93	14	8.7656640
Ellipsoid Height (M):	408.736		
Geoid Height (M):	-28.991		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050218	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,483.7010	
Easting (M)	288,799.9690	
Elevation (M)*	448.111	
Northing (SFT)	713,527.7757	
Easting (SFT)	947,504.5650	
Elevation (SFT)*	1,470.178	

Convergence Angle	0	43	13.0665922
Scale Factor	1.000011118		
Elevation Adjust. Factor	0.9999296817		
Combined Adjust. Factor	0.9999407989		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	14.2908720
Longitude	93	14	16.2132288
Ellipsoid Height (M):	419.127		
Geoid Height (M):	-28.984		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "218" DRIVEN FLUSH IN CLEARING OF DENSE BRUSH APPROX 60'-70' NE OF A LARGE DEAD TREE AND APPROX 400' WEST OF NORTH -SOUTH FENCE AND APPROX 800' NW OF POND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LARGE DEAD TREE		18.50	60.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050219	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,300.5590	
Easting (M)	289,711.4780	
Elevation (M)*	429.902	
Northing (SFT)	716,207.7507	
Easting (SFT)	950,495.0741	
Elevation (SFT)*	1,410.437	

Convergence Angle	0	42	52.0508955
Scale Factor	1.000012725		
Elevation Adjust. Factor	0.9999325389		
Combined Adjust. Factor	0.9999452631		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	41.1599148
Longitude	93	13	40.0975248
Ellipsoid Height (M):	400.906		
Geoid Height (M):	-28.997		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP DRIVEN FLUSH AND STAMPED "219" ON SOUTH SLOPE OF HILL AND APPROX 250' W-SW OF POND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SOUTH FACE OF 20" SUMACK		42.25	138.6
MK # 2	60D NAIL IN EAST FACE OF 12" OAK		30.32	99.5
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050220	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,682.1660	
Easting (M)	289,581.3930	
Elevation (M)*	411.486	
Northing (SFT)	714,178.9063	
Easting (SFT)	950,068.2869	
Elevation (SFT)*	1,350.017	

Convergence Angle	0	42	54.9042833
Scale Factor	1.000011521		
Elevation Adjust. Factor	0.9999354286		
Combined Adjust. Factor	0.9999469489		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	21.0466464	
Longitude	93	13	45.0011028	
Ellipsoid Height (M):	382.495			
Geoid Height (M):	-28.991			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP TAKE ROAD SOUTH AT BOBO'S BERRY'S TO PIPELINE SCAR GO EAST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	6" ELM AT SOUTH EDGE OF TREE LINE		43.59	143.0
MK # 2	EAST GATE POST		56.08	184.0
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050221	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,144.0630	
Easting (M)	290,797.9120	
Elevation (M)*	432.886	
Northing (SFT)	715,694.3134	
Easting (SFT)	954,059.4830	
Elevation (SFT)*	1,420.227	

Convergence Angle	0	42	26.6715762
Scale Factor	1.000012447		
Elevation Adjust. Factor	0.9999320707		
Combined Adjust. Factor	0.9999445168		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	36.5205300	
Longitude	93	12	56.4828876	
Ellipsoid Height (M):	403.885			
Geoid Height (M):	-29.002			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP IN PASTURE NW OF RED BARN AND NORTH OF LOBACK CEMETERY.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 24" OAK		56.69	186.0
MK # 2	60D NAIL IN 6" OAK		38.31	125.7
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050222	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,682.2101	
Easting (M)	290,722.0040	
Elevation (M)*	435.048	
Northing (SFT)	714,179.0510	
Easting (SFT)	953,810.4415	
Elevation (SFT)*	1,427.320	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	21.5076192	
Longitude	93	12	59.2960680	
Ellipsoid Height (M):	406.051			
Geoid Height (M):	-28.997			

Convergence Angle	0	42	28.3085634	
Scale Factor	1.000011548			
Elevation Adjust. Factor	0.9999317314			
Combined Adjust. Factor	0.9999432787			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON PROPERTY OWNED BY MR AND MRS DULA GO SOUTH BY RESIDENCE EAST OF GIFT SHOP ON TRACK ROAD TO STATION WHICH IS SE OF OLD ROCK BUILDING.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH MOST CORNER OF OLD ROCK BUIL DING		40.66	133.4
MK # 2	NORTH EDGE OF WATER		41.15	135.0
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050223	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,229.0841	
Easting (M)	291,641.3420	
Elevation (M)*	411.544	
Northing (SFT)	715,973.2534	
Easting (SFT)	956,826.6362	
Elevation (SFT)*	1,350.207	

Convergence Angle	0	42	7.0284439
Scale Factor	1.000012633		
Elevation Adjust. Factor	0.9999354195		
Combined Adjust. Factor	0.9999480517		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	39.6151368
Longitude	93	12	22.7259504
Ellipsoid Height (M):	382.537		
Geoid Height (M):	-29.007		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED 223 DRIVEN FLUSH BETWEEN DRAIN AND FENCE AND APPROX 400 NORTH OF US HIGHWAY 412.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN EAST FACE OF 18" OAK		58.51	191.9
MK # 2	60D NAIL IN TOP OF 2' STUMP		19.93	65.4
MK # 3	60D NAIL IN W FACE OF 8" DOUBLE OAK		25.56	83.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050224	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,831.5051	
Easting (M)	291,575.4840	
Elevation (M)*	420.335	
Northing (SFT)	714,668.8630	
Easting (SFT)	956,610.5671	
Elevation (SFT)*	1,379.049	

Convergence Angle	0	42	8.4505113
Scale Factor	1.000011858		
Elevation Adjust. Factor	0.9999340401		
Combined Adjust. Factor	0.9999458973		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	26.6914932	
Longitude	93	12	25.1697888	
Ellipsoid Height (M):	391.332			
Geoid Height (M):	-29.003			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP APPROX 1000' SOUTH OF HIGHWAY 62 ON WEST SIDE OF GRAVEL ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN NORTH GATE POST		32.55	106.8
MK # 2	60D NAIL IN 24" OAK		26.73	87.7
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050225	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,141.4950	
Easting (M)	292,769.1560	
Elevation (M)*	382.012	
Northing (SFT)	715,685.8882	
Easting (SFT)	960,526.8060	
Elevation (SFT)*	1,253.318	

Convergence Angle	0	41	40.7045605
Scale Factor	1.000012489		
Elevation Adjust. Factor	0.9999400535		
Combined Adjust. Factor	0.9999525417		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	37.2196680
Longitude	93	11	37.4880696
Ellipsoid Height (M):	352.999		
Geoid Height (M):	-29.013		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP ON EAST SLOPE OF HILL APPROX 300' SOUTH OF BARBED WIRE FENCE AT BOTTOM OF HILL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SE FACE OF 24" OAK		43.54	142.8
MK # 2	60D NAIL IN NE FACE OF 30" POST OAK		54.96	180.3
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050226	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,591.2691	
Easting (M)	292,786.1540	
Elevation (M)*	388.105	
Northing (SFT)	713,880.6887	
Easting (SFT)	960,582.5736	
Elevation (SFT)*	1,273.308	

Convergence Angle	0	41	40.1526673
Scale Factor	1.000011421		
Elevation Adjust. Factor	0.9999390974		
Combined Adjust. Factor	0.9999505177		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	19.3769880
Longitude	93	11	36.5396352
Ellipsoid Height (M):	359.097		
Geoid Height (M):	-29.008		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED 226 FLUSH ON HILLTOP APPROX 800' SOUTH OF ROCK HOUSE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D IN E FACE OF 18" OAK-S. SIDE OF GATE		110.74	363.3
MK # 2	60D NAIL IN NW FACE OF 24" ACORN TREE		160.26	525.8
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050227	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	218,399.6640	
Easting (M)	293,626.6000	
Elevation (M)*	349.316	
Northing (SFT)	716,532.8976	
Easting (SFT)	963,339.9368	
Elevation (SFT)*	1,146.048	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	17	45.9305808	
Longitude	93	11	3.2520696	
Ellipsoid Height (M):	320.296			
Geoid Height (M):	-29.020			

Convergence Angle	0	41	20.7826619
Scale Factor	1.000013013		
Elevation Adjust. Factor	0.9999451839		
Combined Adjust. Factor	0.9999581962		

Location Description

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN WEST FACE 0F 8" OAK		17.88	58.7
MK # 2	BILL BOARD "TROUT FARM"		19.40	63.6
MK # 3	CENTER LINE HIGHWAY 65		10.06	33.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050228	7/1/1993	rial Data Servic	BOONE	412	009947

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	217,941.2780	
Easting (M)	293,848.0670	
Elevation (M)*	340.191	
Northing (SFT)	715,029.0096	
Easting (SFT)	964,066.5331	
Elevation (SFT)*	1,116.110	

Convergence Angle	0	41	15.4899330
Scale Factor	1.000012125		
Elevation Adjust. Factor	0.9999466158		
Combined Adjust. Factor	0.9999587401		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	31.1468280
Longitude	93	10	54.1564572
Ellipsoid Height (M):	311.174		
Geoid Height (M):	-29.017		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN EAST FACE OF POWER POLE		14.39	47.2
MK # 2	END OF CURB		7.44	24.4
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050312	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	221,013.6571	
Easting (M)	292,144.3802	
Elevation (M)*	422.697	
Northing (SFT)	725,108.9733	
Easting (SFT)	958,477.0207	
Elevation (SFT)*	1,386.798	

Convergence Angle	0	41	56.0903831
Scale Factor	1.000018170		
Elevation Adjust. Factor	0.9999336695		
Combined Adjust. Factor	0.9999518383		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	19	10.1457048
Longitude	93	12	3.9287736
Ellipsoid Height (M):	393.661		
Geoid Height (M):	-29.037		

Location Description

5/5" REBAR - ALUMINUM CAP STAMPED "312" IN THE SE 1/4 OF THE NW 1/4 OF SECTION 10, T19N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN NE FACE OF 2' ELM TREE		70.13	230.1
MK # 2	60D NAIL IN NW FACE OF 16" OAK TREE		79.91	262.2
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0503121	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	221,390.1119	
Easting (M)	292,120.3217	
Elevation (M)*	417.952	
Northing (SFT)	726,344.0588	
Easting (SFT)	958,398.0888	
Elevation (SFT)*	1,371.231	

Convergence Angle	0	41	56.7587219
Scale Factor	1.000018931		
Elevation Adjust. Factor	0.9999344140		
Combined Adjust. Factor	0.9999533438		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	19	22.3482468
Longitude	93	12	5.0773212
Ellipsoid Height (M):	388.912		
Geoid Height (M):	-29.400		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 8" ELM TREE		16.02	52.6
MK # 2	60D NAIL IN 4" HACKBERRY TREE		14.86	48.7
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0503122	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	221,505.4593	
Easting (M)	292,564.5375	
Elevation (M)*	409.249	
Northing (SFT)	726,722.4944	
Easting (SFT)	959,855.4868	
Elevation (SFT)*	1,342.678	

Convergence Angle	0	41	46.4291924
Scale Factor	1.000019176		
Elevation Adjust. Factor	0.9999357796		
Combined Adjust. Factor	0.9999549544		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	19	26.2655508
Longitude	93	11	47.3259120
Ellipsoid Height (M):	380.206		
Geoid Height (M):	-29.044		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SW FACE OF 30" OAK TREE		28.00	91.9
MK # 2	60D NAIL IN NW FACE OF 24" OAK TREE		35.54	116.6
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050314	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	221,708.6535	
Easting (M)	291,810.5909	
Elevation (M)*	419.104	
Northing (SFT)	727,389.1407	
Easting (SFT)	957,381.9136	
Elevation (SFT)*	1,375.010	

Convergence Angle	0	42	4.0747406
Scale Factor			1.000019571
Elevation Adjust. Factor			0.9999342332
Combined Adjust. Factor			0.9999538030

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	19	32.5588296	
Longitude	93	12	17.6499792	
Ellipsoid Height (M):	390.062			
Geoid Height (M):	-29.042			

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "314" 37.4' W. OF CENTERLINE OF US HWY. 65 IN THE SW 1/4 SECTION 3, T19N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO FENCE		1.28	4.2
MK # 2	TO CULVERT MARKER		29.86	97.9
MK # 3	TO CENTER LINE OF HWY. 65		11.42	37.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050316	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	222,244.8791	
Easting (M)	291,957.9589	
Elevation (M)*	411.837	
Northing (SFT)	729,148.4075	
Easting (SFT)	957,865.4035	
Elevation (SFT)*	1,351.169	

Convergence Angle	0	42	0.7898479
Scale Factor			1.000020670
Elevation Adjust. Factor			0.9999353735
Combined Adjust. Factor			0.9999560422

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	19	50.0122164
Longitude	93	12	12.0048552
Ellipsoid Height (M):	382.789		
Geoid Height (M):	-29.048		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "316" W. OF US 65 AND IN THE N 1/2 OF THE SW 1/4 OF SECTION 3, T19N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO CULVERT MARKER		20.56	67.4
MK # 2	TO EDGE OF HWY. 65		3.92	12.9
MK # 3	TO FENCE LINE		1.80	5.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050317	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	222,435.8973	
Easting (M)	292,360.4278	
Elevation (M)*	410.691	
Northing (SFT)	729,775.1064	
Easting (SFT)	959,185.8369	
Elevation (SFT)*	1,347.409	

Convergence Angle	0	41	51.4548107
Scale Factor	1.000021072		
Elevation Adjust. Factor	0.9999355533		
Combined Adjust. Factor	0.9999566240		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	19	56.3680272
Longitude	93	11	55.9624920
Ellipsoid Height (M):	381.731		
Geoid Height (M):	-29.052		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "318" IN SW 1/4 OF SE 1/4 OF SECTION 33, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO FENCE		0.78	2.6
MK # 2	60D NAIL IN SOUTH FACE OF CORNER POS T		11.56	37.9
MK # 3	60D NAIL IN SW FACE OF 8" OAK TREE		10.94	35.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050318	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	223,283.8786	
Easting (M)	291,301.9227	
Elevation (M)*	413.687	
Northing (SFT)	732,557.1917	
Easting (SFT)	955,713.0581	
Elevation (SFT)*	1,357.238	

Convergence Angle	0	42	16.3927375
Scale Factor	1.000022796		
Elevation Adjust. Factor	0.9999350832		
Combined Adjust. Factor	0.9999578778		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	23.4558888
Longitude	93	12	38.8185912
Ellipsoid Height (M):	384.634		
Geoid Height (M):	-29.054		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "318" IN SW 1/4 OF SE 1/4 OF SECTION 33, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SE FACE OF 6" CEDAR TREE		22.16	72.7
MK # 2	60D NAIL SOUTH FACE OF 6" OAK TREE		19.40	63.7
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050319	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	223,293.3792	
Easting (M)	291,792.2072	
Elevation (M)*	414.221	
Northing (SFT)	732,588.3616	
Easting (SFT)	957,321.5998	
Elevation (SFT)*	1,358.990	

Convergence Angle	0	42	4.9561558
Scale Factor	1.000022828		
Elevation Adjust. Factor	0.9999349994		
Combined Adjust. Factor	0.9999578260		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	23.9592264
Longitude	93	12	19.1647008
Ellipsoid Height (M):	385.164		
Geoid Height (M):	-29.057		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "319" WHERE THE INTERSECTION OF SECTIONS 33 & 34 IN T20N, R21W AND SECTION3 IN T19N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO FENCE LINE		0.59	1.9
MK # 2	TO EDGE OF HWY. 65		3.87	12.7
MK # 3	TO 45 MPH ROAD SIGN		25.80	84.6

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050320	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	223,329.5638	
Easting (M)	292,210.5773	
Elevation (M)*	714.743	
Northing (SFT)	732,707.0772	
Easting (SFT)	958,694.2024	
Elevation (SFT)*	2,344.953	

Convergence Angle	0	41	55.2050359
Scale Factor	1.000022914		
Elevation Adjust. Factor	0.9998878461		
Combined Adjust. Factor	0.9999107575		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	25.2988584
Longitude	93	12	2.4072948
Ellipsoid Height (M):	686.256		
Geoid Height (M):	-28.484		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "320" IN THE SW 1/4 OF SECTION 34, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO FENCE		0.52	1.7
MK # 2	TO CENTER OF CR #206		3.16	10.4
MK # 3	60D NAIL IN EAST FACE OF 3" CEDAR		5.54	18.2

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050321	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	224,283.2736	
Easting (M)	291,007.5833	
Elevation (M)*	427.556	
Northing (SFT)	735,836.0401	
Easting (SFT)	954,747.3795	
Elevation (SFT)*	1,402.740	

Convergence Angle	0	42	23.5478015
Scale Factor	1.000024875		
Elevation Adjust. Factor	0.9999329070		
Combined Adjust. Factor	0.9999577804		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	55.7579940
Longitude	93	12	51.1146468
Ellipsoid Height (M):	398.493		
Geoid Height (M):	-29.063		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "321" APPROX. 0.2 MILES NORTH OF CENTER OF SECTION 33, T20N, R21W. "NOTE - STATION 321 AND 323 ARE INTERVISIBLE."

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SE FACE OF 30" PECAN TREE		30.39	99.7
MK # 2	60D NAIL IN S FACE OF 6" OAK TREE		15.38	50.5
MK # 3	60D NAIL IN NW FACE OF 12" OAK TREE		36.49	119.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050322	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	224,556.8569	
Easting (M)	291,475.3411	
Elevation (M)*	414.419	
Northing (SFT)	736,733.6213	
Easting (SFT)	956,282.0149	
Elevation (SFT)*	1,359.640	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	21	4.8195540	
Longitude	93	12	32.4919404	
Ellipsoid Height (M):	385.351			
Geoid Height (M):	-29.068			

Convergence Angle	0	42	12.7112649
Scale Factor	1.000025462		
Elevation Adjust. Factor	0.9999349684		
Combined Adjust. Factor	0.9999604287		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "322" NEAR CENTER OF THE NE 1/4 OF SECTION 33 T20N, R21W.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 6" POST		3.75	12.3
MK # 2	60D NAIL IN "WRONE" MAILBOX		18.36	60.2
MK # 3	TO CENTER OF CO. RD. 15		7.91	25.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050324	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	225,283.3341	
Easting (M)	290,972.5324	
Elevation (M)*	417.650	
Northing (SFT)	739,117.0720	
Easting (SFT)	954,632.3834	
Elevation (SFT)*	1,370.240	

Convergence Angle	0	42	24.6536052
Scale Factor	1.000026986		
Elevation Adjust. Factor	0.9999344614		
Combined Adjust. Factor	0.9999614456		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	21	28.1851200	
Longitude	93	12	53.0149824	
Ellipsoid Height (M):	388.577			
Geoid Height (M):	-29.073			

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "324" IN NE 1/4 OF THE SE 1/4 OF THE SW 1/4 OF SECTION 28, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D IN SE FACE OF 2' OAK		26.93	88.3
MK # 2	60D IN W. FACE OF 15" ELM		27.23	89.3
MK # 3	60D IN N. FACE OF 6' OAK		10.52	34.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050325	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	225,759.0535	
Easting (M)	290,138.0133	
Elevation (M)*	420.643	
Northing (SFT)	740,677.8280	
Easting (SFT)	951,894.4653	
Elevation (SFT)*	1,380.060	

Convergence Angle	0	42	44.2669447
Scale Factor	1.000027978		
Elevation Adjust. Factor	0.9999339918		
Combined Adjust. Factor	0.9999619679		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	43.2817452
Longitude	93	13	26.7207204
Ellipsoid Height (M):	391.570		
Geoid Height (M):	-29.073		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "325" EAST OF WEST 1/4 CORNER OF SECTION 28, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO FENCE		0.46	1.5
MK # 2	60D NAIL IN NW FACE OF 6" EVERGREEN T REE		10.31	33.8
MK # 3	TO CENTER OF TRACK RD.		3.95	12.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050326	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	225,692.1666	
Easting (M)	290,722.5118	
Elevation (M)*	422.344	
Northing (SFT)	740,458.3833	
Easting (SFT)	953,812.1075	
Elevation (SFT)*	1,385.640	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	41.3470980
Longitude	93	13	3.2448756
Ellipsoid Height (M):	393.269		
Geoid Height (M):	-29.075		

Convergence Angle	0	42	30.6063711
Scale Factor	1.000027850		
Elevation Adjust. Factor	0.9999337248		
Combined Adjust. Factor	0.9999615730		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "326" IN SW 1/4 OF THE SE 1/4 OF THE NW 1/4 OF SECTION 28, T20N, R21W.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN S FACE OF 2' OAK TREE		47.41	155.6
MK # 2	60D NAIL IN NW FACE OF 12" OAK TREE		40.13	131.7
MK # 3	TO CENTER OF SMALL EVERGREEN SHRUB		5.21	17.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050327	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	226,592.7330	
Easting (M)	289,894.7024	
Elevation (M)*	407.238	
Northing (SFT)	743,412.9915	
Easting (SFT)	951,096.2028	
Elevation (SFT)*	1,336.080	

Convergence Angle	0	42	50.1878838
Scale Factor	1.000029761		
Elevation Adjust. Factor	0.9999360952		
Combined Adjust. Factor	0.9999658543		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	10.2272196
Longitude	93	13	36.8959188
Ellipsoid Height (M):	378.158		
Geoid Height (M):	-29.080		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "327" IN THE NE 1/4 OF THE NE 1/4 OF SECTION 29, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN E FACE OF 8" OAK TREE		24.98	81.9
MK # 2	60D NAIL IN S FACE OF 10" OAK TREE		29.66	97.3
MK # 3	60D NAIL SMALL ASH TREE		7.93	26.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050329	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	227,099.6964	
Easting (M)	289,553.8240	
Elevation (M)*	451.498	
Northing (SFT)	745,076.2539	
Easting (SFT)	949,977.8376	
Elevation (SFT)*	1,481.290	

Convergence Angle	0	42	58.2920975
Scale Factor	1.000030848		
Elevation Adjust. Factor	0.9999291503		
Combined Adjust. Factor	0.9999599961		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	26.5345356
Longitude	93	13	50.8230984
Ellipsoid Height (M):	422.415		
Geoid Height (M):	-29.083		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "329" SE OF CENTER OF SECTION 20, T21N, R21W. -POINT IS IN NW 1/4 OF THE NW 1/4 OF THE SE 1/4 OF SECTION 20, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN BASE OF OAK TREE		16.51	54.2
MK # 2	TO CENTER OF ROAD		3.66	12.0
MK # 3	60D NAIL IN BASE OF ASH TREE		17.50	57.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050330	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	227,378.3865	
Easting (M)	290,002.2691	
Elevation (M)*	455.457	
Northing (SFT)	745,990.5897	
Easting (SFT)	951,449.1112	
Elevation (SFT)*	1,494.279	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	22	35.7564000	
Longitude	93	13	32.9736540	
Ellipsoid Height (M):	426.368			
Geoid Height (M):	-29.089			

Convergence Angle	0	42	47.9055213	
Scale Factor	1.000031466			
Elevation Adjust. Factor	0.9999285291			
Combined Adjust. Factor	0.9999599928			

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "330" IN SE 1/4 OF THE NE 1/4 OF SECTION 20, T20N, R21W.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FLAGGED 60D NAIL IN GROUND		5.69	18.7
MK # 2	60D NAIL IN W FACE OF 2' ELM TREE		38.29	125.6
MK # 3	FLAGGED 60D NAIL IN GROUND		7.11	23.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050331	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	228,365.2051	
Easting (M)	289,902.4772	
Elevation (M)*	460.965	
Northing (SFT)	749,228.1771	
Easting (SFT)	951,121.7106	
Elevation (SFT)*	1,512.349	

Convergence Angle	0	42	50.5220124
Scale Factor	1.000033623		
Elevation Adjust. Factor	0.9999276648		
Combined Adjust. Factor	0.9999612854		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	7.7272620
Longitude	93	13	37.4701224
Ellipsoid Height (M):	431.867		
Geoid Height (M):	-29.098		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "331" IN THE SS. E 1/4 OF SECTION 17, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO CORNER POST		3.64	11.9
MK # 2	60D NAIL IN NW FACE OF 12" ELM TREE		17.05	56.0
MK # 3	60D NAIL IN CORNER POST		14.31	46.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050332	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	228,232.9240	
Easting (M)	290,266.3791	
Elevation (M)*	459.109	
Northing (SFT)	748,794.1848	
Easting (SFT)	952,315.6121	
Elevation (SFT)*	1,506.260	

Convergence Angle	0	42	41.9882629
Scale Factor	1.000033342		
Elevation Adjust. Factor	0.9999279560		
Combined Adjust. Factor	0.9999612956		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	3.5831076
Longitude	93	13	22.8047808
Ellipsoid Height (M):	430.011		
Geoid Height (M):	-29.098		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "332' IN THE SE 1/4 OF THE SE 1/4 OF SECTION 17, T20N, R 21W. - POINT IS NW OF CORNER 17, 16, 20, 21

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN W FACE OF 7" DEAD OAK		37.04	121.5
MK # 2	60D NAIL IN N FACE OF 4" OAK		40.44	132.7
MK # 3	60D NAIL IN E FACE OF 2" OAK		53.47	175.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050333	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	229,256.6616	
Easting (M)	290,024.8937	
Elevation (M)*	428.641	
Northing (SFT)	752,152.8973	
Easting (SFT)	951,523.3387	
Elevation (SFT)*	1,406.300	

Convergence Angle	0	42	47.9232730
Scale Factor	1.000035599		
Elevation Adjust. Factor	0.9999327368		
Combined Adjust. Factor	0.9999683334		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	36.6943848
Longitude	93	13	33.0041604
Ellipsoid Height (M):	399.533		
Geoid Height (M):	-29.108		

Location Description

5/8" REABAR WITH ALUMINUM CAP FLUSH STAMPED "333" IN SE 1/4 OF THE NE 1/4 OF SECTION 17, T 20N, R21W. -NOTE 333 AND 334 ARE INTERVISIBLE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SE FACE OF LEANING 2' OAK		41.44	136.0
MK # 2	60D NAIL IN W FACE OF 2' OAL TREE		72.09	236.5
MK # 3	60D ANIL IN E FACE OF 18" ELM TREE		67.35	220.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050334	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	229,056.6061	
Easting (M)	290,511.9611	
Elevation (M)*	450.712	
Northing (SFT)	751,496.5485	
Easting (SFT)	953,121.3257	
Elevation (SFT)*	1,478.711	

Convergence Angle	0	42	36.4935016
Scale Factor	1.000035168		
Elevation Adjust. Factor	0.9999292736		
Combined Adjust. Factor	0.9999644391		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	30.4011312
Longitude	93	13	13.3619736
Ellipsoid Height (M):	421.604		
Geoid Height (M):	-29.108		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "334" WEST OF CENTER OF THE NW 1/4 OF SECTION 16, T20N, R21W. - POINT IS IN OZARK RUE CAMPGROUND ON THE SOUTH END. NOTE- 333 AND 334 ARE INTERVISIBLE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO CENTER OF TRACK RD.		17.11	56.1
MK # 2	60S NAIL IN OAK TREE		18.18	59.6
MK # 3	60D NAIL IN SE FACE OF POWER POLE		31.04	101.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050335	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	229,831.0746	
Easting (M)	289,964.7529	
Elevation (M)*	438.084	
Northing (SFT)	754,037.4506	
Easting (SFT)	951,326.0268	
Elevation (SFT)*	1,437.281	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	23	55.3032240	
Longitude	93	13	35.7043188	
Ellipsoid Height (M):	408.971			
Geoid Height (M):	-29.113			

Convergence Angle	0	42	49.4944928	
Scale Factor	1.000036878			
Elevation Adjust. Factor	0.9999312551			
Combined Adjust. Factor	0.9999681305			

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "338" IN THE SW 1/4 OF THE SE 1/4 OF SECTION 8 OF T20N, R21W.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN SOUTH FACE OF 16" OAK TREE		22.48	73.7
MK # 2	60D NAIL IN WEST FACE OF 10" OAK TREE		44.85	147.1
MK # 3	TO CENTER OF STATE HWY. 396		36.18	118.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050336	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	229,674.2453	
Easting (M)	290,377.8582	
Elevation (M)*	449.239	
Northing (SFT)	753,522.9198	
Easting (SFT)	952,681.3564	
Elevation (SFT)*	1,473.878	

Convergence Angle	0	42	39.8033857
Scale Factor	1.000036539		
Elevation Adjust. Factor	0.9999295047		
Combined Adjust. Factor	0.9999660411		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	50.3825388
Longitude	93	13	19.0500456
Ellipsoid Height (M):	420.127		
Geoid Height (M):	-29.113		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "336" EAST OF US HWY. 65 NEAR BOUNDARY OF SECTIONS 8 & 9 SOUTH OF 1/4 CORNER, IN T20N, R 21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO FENCE LINE		8.29	27.2
MK # 2	NE CORNER OF SOUTHMOST GUARDRAIL POST		17.89	58.7
MK # 3	TO EDGE OF US HWY. 65		1.75	5.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050338	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	230,580.7449	
Easting (M)	290,099.8800	
Elevation (M)*	425.919	
Northing (SFT)	756,496.9939	
Easting (SFT)	951,769.3563	
Elevation (SFT)*	1,397.369	

Convergence Angle	0	42	46.5572068
Scale Factor	1.000038566		
Elevation Adjust. Factor	0.9999331639		
Combined Adjust. Factor	0.9999717273		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	19.6759764
Longitude	93	13	30.6565608
Ellipsoid Height (M):	396.798		
Geoid Height (M):	-29.121		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "338" IN SW 1/4 OF THE SE 1/4 OF SECTION 8 OF T20N, R21W.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FLAGGED 60D NAIL IN GROUND		6.29	20.6
MK # 2	FLAGGED 60D NAIL IN GROUND		7.24	23.7
MK # 3	60D NAIL IN E FACE OF 18" OAK TREE		76.83	252.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050339	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	231,293.9690	
Easting (M)	289,118.7671	
Elevation (M)*	442.710	
Northing (SFT)	758,836.9633	
Easting (SFT)	948,550.4884	
Elevation (SFT)*	1,452.458	

Convergence Angle	0	43	9.6763836
Scale Factor	1.000040154		
Elevation Adjust. Factor	0.9999305292		
Combined Adjust. Factor	0.9999706804		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	42.4140012
Longitude	93	14	10.3871184
Ellipsoid Height (M):	413.877		
Geoid Height (M):	-29.123		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "339" IN FAR SOUTHERN PART OF SW 1/4 OF SECTION 5, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO CENTER OF CO. RD. 18		4.17	13.7
MK # 2	60D NAIL IN N FACE OF 8" DOUBLE ELM		21.02	68.9
MK # 3	60D NAIL IN WEST FACE OF 7" ASH TREE		14.40	47.2

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050340	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	231,485.3270	
Easting (M)	289,741.9462	
Elevation (M)*	425.678	
Northing (SFT)	759,464.7770	
Easting (SFT)	950,595.0352	
Elevation (SFT)*	1,396.579	

Convergence Angle	0	42	55.1790924
Scale Factor	1.000040607		
Elevation Adjust. Factor	0.9999332017		
Combined Adjust. Factor	0.9999738060		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	48.8744388
Longitude	93	13	45.4733652
Ellipsoid Height (M):	396.550		
Geoid Height (M):	-29.128		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "340" SET NEAR SW CORNER OF CLEARING, APPROX. 300' SOUTH OF TRACK ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SW FACE OF 12" WALNUT		53.04	174.0
MK # 2	60D NAIL IN NE FACE OF 10" OAK TREE		26.43	86.7
MK # 3	60D NAIL IN SE FACE OF 5" EVERGREEN		11.19	36.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050343	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	232,242.8659	
Easting (M)	288,894.7044	
Elevation (M)*	480.362	
Northing (SFT)	761,950.1359	
Easting (SFT)	947,815.3760	
Elevation (SFT)*	1,575.988	

Convergence Angle	0	43	15.1877297
Scale Factor	1.000042316		
Elevation Adjust. Factor	0.9999246212		
Combined Adjust. Factor	0.9999669340		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	13.1032092
Longitude	93	14	19.8584268
Ellipsoid Height (M):	451.231		
Geoid Height (M):	-29.132		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "343" WEST OF EAST 1/4 CORNER OF SECTION 5, T20N, R21W, POINT IS 19.15' EAST OF CENTERLINE OF CO. RD. 18 AND WEST OF RED BARN OWNED BY BREWER'S.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO GATE POST		9.42	30.9
MK # 2	60D NAIL IN POWER POLE #37		25.63	84.1
MK # 3	TO CENTER OF CO. RD. #18		5.84	19.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050344	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	232,264.6591	
Easting (M)	289,470.6795	
Elevation (M)*	433.987	
Northing (SFT)	762,021.6357	
Easting (SFT)	949,705.0543	
Elevation (SFT)*	1,423.839	

Convergence Angle	0	43	1.7419335
Scale Factor	1.000042383		
Elevation Adjust. Factor	0.9999318979		
Combined Adjust. Factor	0.9999742780		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	25	14.0446164	
Longitude	93	13	56.7516792	
Ellipsoid Height (M):	404.852			
Geoid Height (M):	-29.135			

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "344" FLUSH WITH GROUND N NW OF CENTER OF SECTION 5, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN S FACE OF 12" OAK TREE		87.48	287.0
MK # 2	FLAGGED 60D NAIL IN GROUND		5.18	17.0
MK # 3	60D NAIL IN E FACE OF 6" OAK TREE		37.16	121.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050347	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	233,183.9331	
Easting (M)	288,879.9081	
Elevation (M)*	500.461	
Northing (SFT)	765,037.6205	
Easting (SFT)	947,766.8318	
Elevation (SFT)*	1,641.929	

Convergence Angle	0	43	15.8099214
Scale Factor	1.000044488		
Elevation Adjust. Factor	0.9999214675		
Combined Adjust. Factor	0.9999659520		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	25	43.6236312	
Longitude	93	14	20.9276700	
Ellipsoid Height (M):	471.320			
Geoid Height (M):	-29.141			

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "347" IN WEST 1/2 OF SW 1/4 OF SECTION 32, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO FENCE LINE		0.93	3.0
MK # 2	TO CENTER OF CO RD. 18		6.84	22.4
MK # 3	TO CGS REFERENCE MARK		24.71	81.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050349	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,053.2983	
Easting (M)	289,206.9996	
Elevation (M)*	429.506	
Northing (SFT)	767,889.8628	
Easting (SFT)	948,839.9645	
Elevation (SFT)*	1,409.138	

Convergence Angle	0	43	8.4245762
Scale Factor	1.000046525		
Elevation Adjust. Factor	0.9999326010		
Combined Adjust. Factor	0.9999791229		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	11.9574672
Longitude	93	14	8.2358736
Ellipsoid Height (M):	400.356		
Geoid Height (M):	-29.151		

Location Description

5/8" REBAR (NO CAP) AT CENTERLINE OF WHITE GATE ON EAST SIDE OF COUNTY ROAD 18 IN NW 1/4 SECTION 32M, T21N, R21W. -STATION 349 AND 350 ARE INTERVISIBLE

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050350	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,069.9316	
Easting (M)	289,586.8009	
Elevation (M)*	401.642	
Northing (SFT)	767,944.4339	
Easting (SFT)	950,086.0293	
Elevation (SFT)*	1,317.720	

Convergence Angle	0	42	59.5571757
Scale Factor	1.000046575		
Elevation Adjust. Factor	0.9999369732		
Combined Adjust. Factor	0.9999835453		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	12.6513672
Longitude	93	13	52.9971492
Ellipsoid Height (M):	372.488		
Geoid Height (M):	-29.153		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "350" APPROX. 0.2 MILES NORTH OF CENTER OF SECTION 32, T21N, R21W. -NOTE- STATION IS INTERVISIBLE WITH STATIONS 349, 3501, AND 3481.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO EAST SIDE OF METAL GATE		34.91	114.5
MK # 2	TO FENCE LINE		6.63	21.8
MK # 3	60D NAIL IN N FACE OF 12" PINE TREE		27.80	91.2

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0503501	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	233,786.8924	
Easting (M)	289,843.1216	
Elevation (M)*	415.598	
Northing (SFT)	767,015.8295	
Easting (SFT)	950,926.9748	
Elevation (SFT)*	1,363.508	

Convergence Angle	0	42	53.4869397
Scale Factor	1.000045920		
Elevation Adjust. Factor	0.9999347834		
Combined Adjust. Factor	0.9999807004		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	3.5739996
Longitude	93	13	42.5653824
Ellipsoid Height (M):	386.448		
Geoid Height (M):	-29.151		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050351	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,872.5291	
Easting (M)	289,648.9798	
Elevation (M)*	415.519	
Northing (SFT)	770,577.6226	
Easting (SFT)	950,290.0279	
Elevation (SFT)*	1,363.249	

Convergence Angle	0	42	58.3390323
Scale Factor	1.000048465		
Elevation Adjust. Factor	0.9999347958		
Combined Adjust. Factor	0.9999832576		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	38.7111984
Longitude	93	13	50.9037564
Ellipsoid Height (M):	386.358		
Geoid Height (M):	-29.161		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "351" DRIVEN FLUSH APPROX. 0.25 MILES S SE OF CENTER OF SECTION 29, T21N, R21W. POINT IS NORTH OF CO. RD. 18 AND APPROX. 300" NORTH OF SMALL POND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN E FACE OF TREE		32.48	106.6
MK # 2	60D NAIL IN S FACE OF LARGE OAK TREE		33.95	111.4
MK # 3	60D NAIL IN S FACE OF LARGE OAK TREE		29.76	97.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050352	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,845.9803	
Easting (M)	290,012.0291	
Elevation (M)*	416.735	
Northing (SFT)	770,490.5204	
Easting (SFT)	951,481.1321	
Elevation (SFT)*	1,367.238	

Convergence Angle	0	42	49.8495781
Scale Factor	1.000048413		
Elevation Adjust. Factor	0.9999346050		
Combined Adjust. Factor	0.9999830148		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	37.9969872
Longitude	93	13	36.3145368
Ellipsoid Height (M):	387.574		
Geoid Height (M):	-29.162		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "352" 11.23 FEET WEST OF CENTERLINE OF BOONE COUNTY ROAD 18 AND SOUTH OF CENTER OF THE SE 1/4 OF SECTION 29, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN TREE		15.69	51.5
MK # 2	60D NAIL IN GATE POST		12.45	40.8
MK # 3	TO FENCE LINE		0.69	2.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050353	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	235,709.6237	
Easting (M)	290,033.9374	
Elevation (M)*	411.365	
Northing (SFT)	773,323.9904	
Easting (SFT)	951,553.0096	
Elevation (SFT)*	1,349.620	

Convergence Angle	0	42	49.5891187
Scale Factor	1.000050463		
Elevation Adjust. Factor	0.9999354476		
Combined Adjust. Factor	0.9999859073		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	27	6.0205860
Longitude	93	13	35.8669344
Ellipsoid Height (M):	382.195		
Geoid Height (M):	-29.170		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "353" NEAR THE CENTER OF THE NE 1/4 OF SECTION 29, T21N, R21W. NOTE- STAION 353 IS INTERVISIBLE WITH MONUMENT 050026, 387 AND MONUMENT 050027A.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN E FACE OF 8" ELM TREE		27.37	89.8
MK # 2	60D NAIL IN NW FACE OF CORNER POST		39.91	130.9
MK # 3	60D NAIL IN N FACE OF 6" ELM TREE		36.46	119.6

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050354	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	235,580.4102	
Easting (M)	290,379.8349	
Elevation (M)*	411.273	
Northing (SFT)	772,900.0625	
Easting (SFT)	952,687.8417	
Elevation (SFT)*	1,349.318	

Convergence Angle	0	42	41.4698326
Scale Factor			1.000050166
Elevation Adjust. Factor			0.9999354620
Combined Adjust. Factor			0.9999856248

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	27	1.9687464	
Longitude	93	13	21.9138528	
Ellipsoid Height (M):	382.104			
Geoid Height (M):	-29.170			

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "354" EAST OF CO. RD. 18 APPROX. 0.25 MILES SOUTH OF SECTION CORNER 20 21 IN T21N, R21W.

29 28

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN NW FACE OF 12" ELM TREE		68.40	224.4
MK # 2	TO FENCE LINE		10.23	33.6
MK # 3	60D NAIL IN OAK TREE		21.47	70.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050377	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	236,661.5525	
Easting (M)	290,345.1881	
Elevation (M)*	331.565	
Northing (SFT)	776,447.1102	
Easting (SFT)	952,574.1713	
Elevation (SFT)*	1,087.810	

Convergence Angle	0	42	42.5931763
Scale Factor			1.000052753
Elevation Adjust. Factor			0.9999479693
Combined Adjust. Factor			1.0000007196

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	27	37.0246284	
Longitude	93	13	23.8443312	
Ellipsoid Height (M):			302.385	
Geoid Height (M):			-29.180	

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "377" ON A HILLTOP IN A CLEARING IN NE 1/4 OF THE SE 1/4 OF SECTION 20, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN TREE		46.58	152.8
MK # 2	CHISELED X IN CENTER OF ROCK		13.12	43.0
MK # 3	60D NAIL IN TREE		62.23	204.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050378	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	236,428.7888	
Easting (M)	291,064.6545	
Elevation (M)*	314.231	
Northing (SFT)	775,683.4513	
Easting (SFT)	954,934.6206	
Elevation (SFT)*	1,030.940	

Convergence Angle	0	42	25.7140891
Scale Factor	1.000052215		
Elevation Adjust. Factor	0.9999506893		
Combined Adjust. Factor	1.0000029018		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	27	29.7633096
Longitude	93	12	54.8374356
Ellipsoid Height (M):	285.050		
Geoid Height (M):	-29.181		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "378" IN SW CORNER OF THE INTERSECTION OF COUNTY ROADS 18 AND 22 POINT IS LOCATED IN SW 1/4 OF THE NE 1/4 OF THE SW 1/4 OF SECTION 21, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN W FACE OF 4" EVERGREEN		11.04	36.2
MK # 2	60D NAIL IN N FACE OF POWER POLE #28		39.87	130.8
MK # 3	60D NAIL IN CENTER OF 12" STUMP		30.59	100.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050379	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	237,363.1312	
Easting (M)	290,256.0963	
Elevation (M)*	382.427	
Northing (SFT)	778,748.8729	
Easting (SFT)	952,281.8759	
Elevation (SFT)*	1,254.679	

Convergence Angle	0	42	44.8788717
Scale Factor	1.000054446		
Elevation Adjust. Factor	0.9999399883		
Combined Adjust. Factor	0.9999944311		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	27	59.7462732
Longitude	93	13	27.7723236
Ellipsoid Height (M):	353.236		
Geoid Height (M):	-29.186		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "379" SW OF LARGE CHICKEN BARNS IN THE NE 1/4 OF THE NE 1/4 OF SECTION 20, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN E FACE OF 10" OAK TREE		34.07	111.8
MK # 2	60D NAIL IN SE FACE OF 10" EVERGREEN		44.45	145.8
MK # 3	SW CORNER OF SOUTHMOST CHICKEN BA RN		43.82	143.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050380	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	237,524.3944	
Easting (M)	290,960.4444	
Elevation (M)*	392.626	
Northing (SFT)	779,277.9506	
Easting (SFT)	954,592.7247	
Elevation (SFT)*	1,288.140	

Convergence Angle	0	42	28.4654499
Scale Factor	1.000054859		
Elevation Adjust. Factor	0.9999383880		
Combined Adjust. Factor	0.9999932436		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	28	5.2604760
Longitude	93	12	59.5656792
Ellipsoid Height (M):	363.435		
Geoid Height (M):	-29.191		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "380" SOUTH OF COUNTY ROAD 22 IN THE NORTH 1/2 OF THE NE 1/4 OF SECTION 21, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN S FACE OF 10' ELM TREE		21.60	70.9
MK # 2	60D NAIL NW FACE OF POWER POLE #3		17.08	56.0
MK # 3	60D NAIL IN NE FACE OF 6" BLACKJACK TR EE		14.63	48.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0503801	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	237,952.5701	
Easting (M)	290,952.5097	
Elevation (M)*	396.509	
Northing (SFT)	780,682.7237	
Easting (SFT)	954,566.6922	
Elevation (SFT)*	1,300.880	

Convergence Angle	0	42	28.7745326
Scale Factor	1.000055901		
Elevation Adjust. Factor	0.9999377787		
Combined Adjust. Factor	0.9999936762		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	28	19.1462844
Longitude	93	13	0.0968412
Ellipsoid Height (M):	367.315		
Geoid Height (M):	-29.194		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050382	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	238,176.6419	
Easting (M)	290,302.5935	
Elevation (M)*	387.843	
Northing (SFT)	781,417.8660	
Easting (SFT)	952,434.4255	
Elevation (SFT)*	1,272.448	

Convergence Angle	0	42	44.0286088
Scale Factor	1.000056428		
Elevation Adjust. Factor	0.9999391385		
Combined Adjust. Factor	0.9999955631		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	28	26.1533244
Longitude	93	13	26.3111376
Ellipsoid Height (M):	358.650		
Geoid Height (M):	-29.194		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "382" IN SW 1/4 OF THE NE 1/4 OF THE SE 1/4 OF SECTION 17, T21N, R21W/

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO CENTER OF TRACK ROAD		4.89	16.0
MK # 2	60D NAIL IN NW FACE OF 30" BALCKJACK		60.52	198.5
MK # 3	60D NAIL IN N FACE OF 2" BLACKJACK		59.69	195.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050387	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	239,187.4831	
Easting (M)	290,732.0542	
Elevation (M)*	407.698	
Northing (SFT)	784,734.2675	
Easting (SFT)	953,843.4145	
Elevation (SFT)*	1,337.589	

Convergence Angle	0	42	34.2841442
Scale Factor	1.000058926		
Elevation Adjust. Factor	0.9999360230		
Combined Adjust. Factor	0.9999949452		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	28	59.1152808	
Longitude	93	13	9.5651688	
Ellipsoid Height (M):	378.494			
Geoid Height (M):	-29.204			

Location Description

5/8" REBAR WITH ALUMINUM CAP DRIVEN FLUSH STAMPED "387" IN NW 1/4 OF THE NW 1/4 OF SECTION 16, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN TOP OF STUMP		23.18	76.0
MK # 2	60D NAIL IN S FACE OF 2' PINE		59.18	194.1
MK # 3	60D NAIL IN SE FACE OF 12" LEANING ELM		77.11	253.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0503871	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	239,525.8350	
Easting (M)	290,935.2335	
Elevation (M)*	419.204	
Northing (SFT)	785,844.3437	
Easting (SFT)	954,510.0119	
Elevation (SFT)*	1,375.338	

Convergence Angle	0	42	29.6328040
Scale Factor	1.000059770		
Elevation Adjust. Factor	0.9999342176		
Combined Adjust. Factor	0.9999939836		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	10.1720724
Longitude	93	13	1.5717900
Ellipsoid Height (M):	390.001		
Geoid Height (M):	-29.204		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050394	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	239,614.8904	
Easting (M)	290,215.3984	
Elevation (M)*	410.996	
Northing (SFT)	786,136.5196	
Easting (SFT)	952,148.3529	
Elevation (SFT)*	1,348.409	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	29	12.7712004	
Longitude	93	13	30.5320116	
Ellipsoid Height (M):	381.790			
Geoid Height (M):	-29.206			

Convergence Angle	0	42	46.4847317
Scale Factor	1.000059969		
Elevation Adjust. Factor	0.9999355055		
Combined Adjust. Factor	0.9999954706		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH DRIVEN AND STAMPED "394" NEAR CENTER OF SECTION 8, T21N, R21W.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN S FACE OF 6" PINE TREE		31.58	103.6
MK # 2	60D NAIL IN SW FACE OF 18" BLACKJACK		32.70	107.3
MK # 3	60D NAIL IN NE FACE OF 10" DBLE. OAK		45.74	150.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050395	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	239,813.6429	
Easting (M)	290,648.4304	
Elevation (M)*	417.973	
Northing (SFT)	786,788.5934	
Easting (SFT)	953,569.0587	
Elevation (SFT)*	1,371.300	

Convergence Angle	0	42	36.4201656
Scale Factor	1.000060476		
Elevation Adjust. Factor	0.9999344107		
Combined Adjust. Factor	0.9999948827		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	19.3926408
Longitude	93	13	13.2359448
Ellipsoid Height (M):	388.764		
Geoid Height (M):	-29.209		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "395" IN CLEARING IN THE NW 1/4 OF THE SW 1/4 OF SECTION 9, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SE FACE OF 10" EVERGREEN		28.16	92.4
MK # 2	60D NAIL IN N FACE OF 8" DBLE. PINE		21.18	69.5
MK # 3	60D NAIL IN E FACE OF 2' PINE TREE		21.63	70.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050397	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	240,084.0379	
Easting (M)	290,937.5628	
Elevation (M)*	410.993	
Northing (SFT)	787,675.7143	
Easting (SFT)	954,517.6540	
Elevation (SFT)*	1,348.400	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	28.2796152
Longitude	93	13	1.7554188
Ellipsoid Height (M):	381.781		
Geoid Height (M):	-29.212		

Convergence Angle	0	42	29.7396575
Scale Factor	1.000061158		
Elevation Adjust. Factor	0.9999355060		
Combined Adjust. Factor	0.9999966600		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "397" IN SW CORNER OF FIELD APPROX. 0.25 MILES EAST OF THE WEST 1/4 CORNER OF SECTION 9, T21N, R21W.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN E FACE OF 15" ELM		15.20	49.9
MK # 2	60D NAIL IN SW FACE OF 7" PINE TREE		21.52	70.6
MK # 3	60D NAIL IN N FACE OF 5" PINE TREE		25.18	82.6

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050399	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	240,475.5010	
Easting (M)	290,492.4134	
Elevation (M)*	413.526	
Northing (SFT)	788,960.0395	
Easting (SFT)	953,057.1930	
Elevation (SFT)*	1,356.710	

Convergence Angle	0	42	40.2592034
Scale Factor	1.000062122		
Elevation Adjust. Factor	0.9999351085		
Combined Adjust. Factor	0.9999972265		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	40.7987304
Longitude	93	13	19.8333732
Ellipsoid Height (M):	384.312		
Geoid Height (M):	-29.214		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "399" IN THE SE CORNER OF THE INTERSECTION OF ST. HWY. 14 AND COUNTY ROAD 203 AND US HWY. 65 #399 IS LOCATED APPROX. 0.1 MILES NORTH OF W 1/4 CORNER OF SECTION 9, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO HWY. 65 SIGN		9.89	32.4
MK # 2	TO SIGN 203		48.36	158.7
MK # 3	TO CENTER OF US HWY. 65		10.65	34.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050400	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	240,897.1471	
Easting (M)	290,004.4249	
Elevation (M)*	416.857	
Northing (SFT)	790,343.3901	
Easting (SFT)	951,456.1840	
Elevation (SFT)*	1,367.638	

Convergence Angle	0	42	51.7899773
Scale Factor	1.000063164		
Elevation Adjust. Factor	0.9999345858		
Combined Adjust. Factor	0.9999977457		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	54.2788080
Longitude	93	13	39.6491340
Ellipsoid Height (M):	387.642		
Geoid Height (M):	-29.216		

Location Description

5/8" REBAR WITH ALUMINUM CAP FLUSH STAMPED "400" POINT IS APPROX. 0.05 MILES NORTH OF MISSOURI-ARKANSAS BORDER AT SW CORNER INTERSECTION OF OLD US HWY. 65 AND ROAD 56 -100C POINT 400 IS IN EAST 1/2 OF MISSOURI SECTION 20, T21N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO BASE OF STOP SIGN		14.26	46.8
MK # 2	TO CENTER OF OLD US HWY. 65		7.86	25.8
MK # 3	60D NAIL IN POST		4.62	15.2

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0504011	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	240,084.0166	
Easting (M)	290,905.7630	
Elevation (M)*	417.549	
Northing (SFT)	787,675.6445	
Easting (SFT)	954,413.3241	
Elevation (SFT)*	1,369.909	

Convergence Angle	0	42	30.4830145
Scale Factor	1.000061157		
Elevation Adjust. Factor	0.9999344772		
Combined Adjust. Factor	0.9999956302		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	28.2661692
Longitude	93	13	3.0328860
Ellipsoid Height (M):	388.329		
Geoid Height (M):	-29.220		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050402	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	223,285.8402	
Easting (M)	290,830.5413	
Elevation (M)*	385.926	
Northing (SFT)	732,563.6274	
Easting (SFT)	954,166.5342	
Elevation (SFT)*	1,266.159	

Convergence Angle	0	42	27.3915381
Scale Factor	1.000022788		
Elevation Adjust. Factor	0.9999394393		
Combined Adjust. Factor	0.9999622259		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	23.3310732
Longitude	93	12	57.7201500
Ellipsoid Height (M):	356.874		
Geoid Height (M):	-29.052		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "402" SET APPROX. 110' SOUTH FROM DIRT ROAD AND APPROX. 40' EAST OF POND STATION IS LOCATED NEAR THE SOUTH 1/4 CORNER OF SECTION 33, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN S FACE OF 14" ELM TREE		33.20	108.9
MK # 2	60D NAIL IN E FACE OF 24" DEAD ELM		25.40	83.3
MK # 3	60D ANIL I S FACE OF 8" OAK TREE		33.15	108.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050403	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	223,953.0431	
Easting (M)	290,559.6627	
Elevation (M)*	400.648	
Northing (SFT)	734,752.6089	
Easting (SFT)	953,277.8267	
Elevation (SFT)*	1,314.459	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	20	44.8660104	
Longitude	93	13	8.9125896	
Ellipsoid Height (M):	371.591			
Geoid Height (M):	-29.057			

Convergence Angle	0	42	33.9044089
Scale Factor	1.000024171		
Elevation Adjust. Factor	0.9999371292		
Combined Adjust. Factor	0.9999612987		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "403" FLUSH SOUTH OF E/W RUNNING GRAVEL ROAD IN CARDINAL HILLS SUBDIVISION STATION IS LOCATED IN THE SW 1/4 OF SECTION 33, T20N, R21W.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN S FACE OF 3" TREE		13.59	44.6
MK # 2	60D NAIL IN NW FACE OF 2" OAK		12.10	39.7
MK # 3	60D NAIL IN N FACE OF 2" OAK		7.56	24.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050404	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	225,060.0592	
Easting (M)	290,102.5397	
Elevation (M)*	391.726	
Northing (SFT)	738,384.5442	
Easting (SFT)	951,778.0823	
Elevation (SFT)*	1,285.188	

Convergence Angle	0	42	44.8919749
Scale Factor	1.000026490		
Elevation Adjust. Factor	0.9999385292		
Combined Adjust. Factor	0.9999650176		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	20.5927092
Longitude	93	13	27.7948416
Ellipsoid Height (M):	362.661		
Geoid Height (M):	-29.066		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "404" FLUSH, SW OF A GREEN HOUSE AND SMALL BARN, IN THE SW 1/4 OF THE SW 1/4 OF SECTION 20, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO GATE POST		6.75	22.1
MK # 2	60D NAIL IN S FACE OF WOOD POST		8.37	27.4
MK # 3	2ND T POST W OF WOODEN POST		11.44	37.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050405	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	225,738.5125	
Easting (M)	289,820.3703	
Elevation (M)*	406.991	
Northing (SFT)	740,610.4364	
Easting (SFT)	950,852.3316	
Elevation (SFT)*	1,335.270	

Convergence Angle	0	42	51.6742418
Scale Factor	1.000027925		
Elevation Adjust. Factor	0.9999361339		
Combined Adjust. Factor	0.9999640571		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	42.4871244
Longitude	93	13	39.4502412
Ellipsoid Height (M):	377.920		
Geoid Height (M):	-29.071		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "405" - FLUSH, APPROX. 75' SOUTH OF E/W RUNNING DIRT ROAD IN NW CORNER OF PASTURE STATION IS LOCATED WEST OF THE EAST 1/4 CORNER OF SECTION 29, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SW FACE OF 12" OAK TREE		18.84	61.8
MK # 2	60D NAIL IN N FACE OF 24" OAK		23.10	75.8
MK # 3	60D NAIL IN SE FACE OF 24" OAK		21.52	70.6

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050406	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	226,896.5525	
Easting (M)	288,211.6674	
Elevation (M)*	445.597	
Northing (SFT)	744,409.7727	
Easting (SFT)	945,574.4455	
Elevation (SFT)*	1,461.929	

Convergence Angle	0	43	29.5605290
Scale Factor	1.000030372		
Elevation Adjust. Factor	0.9999300762		
Combined Adjust. Factor	0.9999604461		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	19.3972368
Longitude	93	14	44.5582392
Ellipsoid Height (M):	416.517		
Geoid Height (M):	-29.080		

Location Description

5/8" REBAR WITH ALUMINUM CAP STAMPED "402" - FLUSH IN SUBDIVISION WEST OF DIRT ROAD IN BURLINGTON ARKANSAS STATION IS LOCATED IN THE SW 1/4 OF SECTION 20, T20N, R21W.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SE FACE OF 18" OAK TREE		19.37	63.6
MK # 2	60D NAIL IN SW FACE OF TELEPHONE POLE		14.97	49.1
MK # 3	TO NW CORNER OF WELL HOUSE		20.69	67.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050408	12/7/2011	AHTD	Boone	65B	090339,090490

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,856.9773	0.0040
Easting (M)	300,487.4064	0.0030
Elevation (M)*	320.724	0.0009
Northing (SFT)	691,786.5997	
Easting (SFT)	985,849.0992	
Elevation (SFT)*	1,052.241	

Convergence Angle	0	38	38.8151737
Scale Factor	0.999999119		
Elevation Adjust. Factor	0.9999496705		
Combined Adjust. Factor	0.9999487896		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	36	13	43.8308652
Longitude	93	6	24.9091740
Ellipsoid Height (M):	292.515	0.0000	
Geoid Height (M):	-28.209		

Location Description

This station is in the South East corner of the intersection of highways 65B and 7 in Harrison. The station is a standard alum. cap stamped (050408 2011) and is set on a 4 foot rebar. Lt.36.1344 Ln. 093.0625

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of HWY 7	South	13.10	43.0
MK # 2	CL of Main St.	East	35.35	116.0
MK # 3	N.E. corner of bridge	245	25.60	84.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BENCHMARK H 36 BY CREW S5102 DURING JOB 090339 IN DEC. 20011.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050408A	12/7/2011	AHTD	Boone	65B	090339

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,613.6612	0.0040
Easting (M)	300,204.2406	0.0030
Elevation (M)*	321.570	0.0000
Northing (SFT)	690,988.3201	
Easting (SFT)	984,920.0794	
Elevation (SFT)*	1,055.016	

Convergence Angle	0	38	45.3489510
Scale Factor	0.999998684		
Elevation Adjust. Factor	0.9999495378		
Combined Adjust. Factor	0.9999482219		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid96		
Latitude	36	13	35.8339872
Longitude	93	6	36.1375416
Ellipsoid Height (M):	293.362	0.0040	
Geoid Height (M):	-28.206		

Location Description

Starting at the intersection of highway 65B and 7 in Harrison. Go south on 65B for 0.1 miles and turn right on Lake Shore Dr. and go 0.2 miles to the station on the right. The station is a standard alum. cap Stamped(050408A 2011) and is set on a 4 foot rebar. Lt.36.1336 Ln.093.0637

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CL of South Spring St.	East	14.60	47.9
MK # 2	CL of Lake Shore Dr.	North	9.45	31.0
MK # 3	N.W. end of bridge	150	5.50	18.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

BASED ON NGS POINT H 36

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050409	2/2/2015	AHTD	BOONE	412	090427,090490

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,005.2239	0.0020
Easting (M)	295,163.6885	0.0020
Elevation (M)*	371.136	
Northing (SFT)	711,957.9721	
Easting (SFT)	968,382.8680	
Elevation (SFT)*	1,217.634	

Convergence Angle	0	40	44.5535016	
Scale Factor	1.000010347			
Elevation Adjust. Factor	0.9999417601			
Combined Adjust. Factor	0.9999521065			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	17	1.2900984	
Longitude	93	10	0.9918624	
Ellipsoid Height (M):	342.842		0.0050	
Geoid Height (M):	-28.298		0.0050	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 980 AND STATE HIGHWAY 412, NORTHWEST OF HARRISON, GO WEST ON 412 FOR 1.35 MILE TO THE MARK ON THE RIGHT, 52.9 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT OF 412, AND 36 FEET EAST OF THE CENTERLINE OF JOURNAGAN LANE ON TOP OF A SMALL HILL. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "050409 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGN "DAVEY'S AUTO BODY"	106	42.70	140.1
MK # 2	END OF CULVERT	146	65.10	213.6
MK # 3				

AZ Mark Station	050409A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOBR

Comments

ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS BY CREW S5112 IN FEBRUARY 2015 FROM 2ND ORDER NGS BM C 194 FOR JOB #090427 (ARKANSAS WELCOME CENTER). STATIC SESSIONS ON NGS 1ST ORDER BM 1489 WERE PERFORMED SIMULTANEOUS W/STATIC SESSIONS ON AHTD GPS #'S 050409 & 050409A AND USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050409A	2/2/2015	AHTD	BOONE	412	090427

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,616.9429	0.0020
Easting (M)	295,573.2761	0.0020
Elevation (M)*	370.523	
Northing (SFT)	710,684.0868	
Easting (SFT)	969,726.6567	
Elevation (SFT)*	1,215.624	

Convergence Angle	0	40	34.8968316	
Scale Factor	1.000009612			
Elevation Adjust. Factor	0.9999418563			
Combined Adjust. Factor	0.9999514677			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	16	48.8513172	
Longitude	93	9	44.3967696	
Ellipsoid Height (M):	342.231			0.0050
Geoid Height (M):	-28.296			0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 980 AND STATE HIGHWAY 412, NORTHWEST OF HARRISON, GO WEST ON 412 FOR 1.00 MILE TO THE MARK ON THE LEFT, 11.8 FEET SOUTH OF THE SOUTH EDGE OF THE PAVEMENT OF 412, AND 60 FEET EAST OF THE CENTERLINE OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "050409A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF BOX CULVERT	286	58.60	192.3
MK # 2				
MK # 3				

AZ Mark Station	050409
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOBR

Comments

ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS BY CREW S5112 IN FEBRUARY 2015 FROM 2ND ORDER NGS BM C 194 FOR JOB #090427 (ARKANSAS WELCOME CENTER). STATIC SESSIONS ON NGS 1ST ORDER BM 1489 WERE PERFORMED SIMULTANEOUS W/STATIC SESSIONS ON AHTD GPS #'S 050409 & 050409A AND USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050410	7/1/2019	AHTD	BOONE	62	R90095,090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	208,336.1891	0.0010
Easting (M)	315,124.3370	0.0010
Elevation (M)*	360.677	0.0034
Northing (SFT)	683,516.3137	
Easting (SFT)	1,033,870.4290	
Elevation (SFT)*	1,183.320	

Convergence Angle	0	32	57.2090898
Scale Factor			0.999994999
Elevation Adjust. Factor			0.9999434013
Combined Adjust. Factor			0.9999384006

SUPERCEDED CONTROL

Horizontal Datum			NAD83(2011)
Latitude	36	12	26.9979876
Longitude	92	56	37.8550572
Ellipsoid Height:			332.280
Grid Northing (Meters)			208,336.1991
Grid Easting (Meters)			315,124.3455

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	12	26.9976600	
Longitude	92	56	37.8553920	
Ellipsoid Height (M):			332.306	0.0070
Geoid Height (M):			-28.355	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF US-65 AND US-62/412 S OF HARRISON, GO E ON US-62/412 4.4 MILES TO DIAMOND RD. GO L ON DIAMOND RD AND CONTINUE FOR 1.2 MILES TO STATION ON L. 15.7' N OF C/L DIAMOND RD. THE MARK IS A STANDARD 2½" CAP STAMPED "050410 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	W END OF A GATE	313	11.06	36.3
MK # 2	30" OAK TREE	43	36.33	119.2
MK # 3				

AZ Mark Station	050410A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050410A	7/1/2019	AHTD	BOONE	62	R90095,090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	208,601.6453	0.0010
Easting (M)	315,487.6731	0.0010
Elevation (M)*	349.943	0.0031
Northing (SFT)	684,387.2313	
Easting (SFT)	1,035,062.4742	
Elevation (SFT)*	1,148.104	

Convergence Angle	0	32	48.8045834
Scale Factor			0.999995460
Elevation Adjust. Factor			0.9999450856
Combined Adjust. Factor			0.9999405458

SUPERCEDED CONTROL

Horizontal Datum			NAD83(2011)
Latitude	36	12	35.7225120
Longitude	92	56	23.4118320
Ellipsoid Height:			321.537
Grid Northing (Meters)			208,601.6507
Grid Easting (Meters)			315,487.6813

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	12	35.7223320
Longitude	92	56	23.4121560
Ellipsoid Height (M):			321.569 0.0070
Geoid Height (M):			-28.360

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF US-65 AND US-62/412 S OF HARRISON, GO E ON US-62/412 4.4 MILES TO DIAMOND RD. GO L ON DIAMOND RD AND CONTINUE FOR 1.5 MILES TO STATION ON L. 11.9' N OF C/L DIAMOND RD. THE MARK IS A STANDARD 2½" CAP STAMPED "050410A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	106	2.26	7.4
MK # 2	POWER POLE	80	3.23	10.6
MK # 3	SE COR OF A HOUSE	296	23.26	76.3

AZ Mark Station	050410
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050411	7/9/2019	ARDOT	BOONE	7	090555

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	204,565.7701	0.0030
Easting (M)	298,922.9033	0.0030
Elevation (M)*	347.173	
Northing (SFT)	671,146.1974	
Easting (SFT)	980,716.2252	
Elevation (SFT)*	1,139.016	

Convergence Angle	0	39	13.5949855	
Scale Factor	0.999988452			
Elevation Adjust. Factor	0.9999455202			
Combined Adjust. Factor	0.9999339729			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	10	19.1600832	
Longitude	93	7	24.6786600	
Ellipsoid Height (M):	318.949			0.0220
Geoid Height (M):	-28.236			0.0220

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 43S, SOUTHWEST OF HARRISON, GO SOUTH ON HIGHWAY 7 3.45 MILES TO THE MARK ON THE LEFT, EAST 29.7' OF THE C/L OF THE HIGHWAY AND NORTH 126' OF THE C/L OF A PRIVATE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 050411" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	199	46.79	153.5
MK # 2	COMBINATION POLE	36	10.36	34.0
MK # 3				

AZ Mark Station	050411A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	ARRV, MOBR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050411A	7/9/2019	ARDOT	BOONE	7	090555

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	205,098.1987	0.0030
Easting (M)	298,925.9152	0.0030
Elevation (M)*	343.553	
Northing (SFT)	672,893.0069	
Easting (SFT)	980,726.1068	
Elevation (SFT)*	1,127.142	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	10	36.4340964	
Longitude	93	7	24.8012508	
Ellipsoid Height (M):	315.330			0.0230
Geoid Height (M):	-28.240			0.0230

Convergence Angle	0	39	13.6663209
Scale Factor	0.999989314		
Elevation Adjust. Factor	0.9999460882		
Combined Adjust. Factor	0.9999354027		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 43S, SOUTHWEST OF HARRISON, GO SOUTH ON HIGHWAY 7 3.15 MILES TO THE MARK ON THE RIGHT, WEST 28.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 050411A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	050411
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	ARRV, MOBR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM L 18 BY S5112 IN JULY 2019 FOR JOB #090555

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050412	3/25/2020	ARDOT	BOONE	65	90578

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62 EAST AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ALONG U.S. HIGHWAY 65, 2.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050412, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SUFACE, 62 FEET NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND 4 FEET SOUTHWEST OF WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	120		
MK # 2	FENCE	28		
MK # 3	SIGN POST	86		

AZ Mark Station	050412A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050412A	3/25/2020	ARDOT	BOONE	U.S. 65	90578

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62 EAST AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ON U.S. HIGHWAY 65, 2.4 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050412A, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SURFACE, 40 FEET SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 5 FEET NORTHEAST OF WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	ROW MARKER	153		
MK # 2	HEAD WALL	300		
MK # 3	SIGN POST	287		

AZ Mark Station	50412
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050413	3/25/2020	ARDOT	BOONE	U.S. 65	90578

Zone	Zone Code
Arkansas South	
Horizontal Datum	
Northing (M)	#Error
Easting (M)	#Error
Elevation (M)*	
Northing (SFT)	#Type!
Easting (SFT)	#Type!
Elevation (SFT)*	
Convergence Angle	### ### #Error
Scale Factor	#Error
Elevation Adjust. Factor	
Combined Adjust. Factor	#Type!

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 43 AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ALONG U.S. HIGHWAY 65, .3 OF A MILE TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050413, DATED 2020. SET ON TOP OF A 48" REBAR DRIVEN .3 FEET BELOW THE GROUND SURFACE, 70 FEET NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND SOUTHWEST OF WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	297		
MK # 2	SIGN POST	123		
MK # 3	LIGHT POLE	72		

AZ Mark Station	050413A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050413A	3/25/2020	ARDOT	BOONE	U.S. 65	90578

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 43 AND U.S. HIGHWAY 65 IN BOONE COUNTY ARKANSAS. TRAVEL NORTHWEST ALONG U.S. HIGHWAY 65, .6 OF A MILE TO THE STATION ON THE LEFT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 050413A, DATED 2020. SET ON TOP OF A 48" REBAR, DRIVEN .3 FT BELOW THE GROUND SURFACE, 60 FEET SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 95 FEET NORTHWEST OF THE CENTER OF FORWARD DRIVE AND NORTHEAST OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGNAL POLE	85		
MK # 2	C/L FORWARD RD	126		
MK # 3	FIRE HYDRANT	313		

AZ Mark Station	50413
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050414	5/24/2023	ARDOT	BOONE	62 / 412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,278.4056	0.0010
Easting (M)	318,375.2815	0.0010
Elevation (M)*	321.277	0.0010

Northing (SFT)	689,888.4024	
Easting (SFT)	1,044,536.2361	
Elevation (SFT)*	1,054.055	

Convergence Angle	0	31	41.8987201
Scale Factor			0.999998421
Elevation Adjust. Factor			0.9999495838
Combined Adjust. Factor			0.9999480049

SUPERCEDED CONTROL

Horizontal Datum			NAD83(2011)
Latitude	36	13	30.9986868
Longitude	92	54	28.4336784
Ellipsoid Height:			292.870
Grid Northing (Meters)			210,278.4070
Grid Easting (Meters)			318,375.2821

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	13	30.9986400	
Longitude	92	54	28.4337000	
Ellipsoid Height (M):			292.873	0.0050
Geoid Height (M):			-28.392	

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62/412 NEAR BELLFONTE, BOONE COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 62/412 FOR 8.3 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 050414, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS 45 FEET NORTHWEST OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412, 39 FEET SOUTHWEST OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 15 FEET SOUTHEAST OF A BARBED WIRE FENCE AND APROXIMATLY 400 FEET SOUTHWEST OF TURKEY LANE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	STEEL CORNER POST	7	14.63	48.0
MK # 2	UTILITY MARKER (FIBER OPTIC)	227	14.32	47.0
MK # 3				

AZ Mark Station	050414A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
050414A	5/24/2023	ARDOT	BOONE	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,466.4485	0.0010
Easting (M)	318,651.0550	0.0010
Elevation (M)*	322.072	0.0010
Northing (SFT)	690,505.3398	
Easting (SFT)	1,045,441.0029	
Elevation (SFT)*	1,056.666	

Convergence Angle	0	31	35.5136783
Scale Factor	0.999998757		
Elevation Adjust. Factor	0.9999494589		
Combined Adjust. Factor	0.9999482160		

SUPERCEDED CONTROL

Horizontal Datum	NAD83(2011)		
Latitude	36	13	37.1815104
Longitude	92	54	17.4609216
Ellipsoid Height:	293.675		
Grid Northing (Meters)	210,466.4500		
Grid Easting (Meters)	318,651.0554		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	13	37.1814600	
Longitude	92	54	17.4609360	
Ellipsoid Height (M):	293.678			0.0050
Geoid Height (M):	-28.394			

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND U.S. HIGHWAY 62/412 NEAR BELLFONTE, BOONE COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 62/412 FOR 8.5 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 050414A, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS 46 FEET NORTH OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412, 13 FEET SOUTH OF A WOVEN WIRE FENCE AND APROXIMATLY 1100 FEET EAST OF TURKEY LANE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	259	15.85	52.0
MK # 2				
MK # 3				

AZ Mark Station	050414
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060002	1/12/1994	AHTD	BRADLEY	15	R70095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	514,040.9052	
Easting (M)	396,934.1830	
Elevation (M)*		
Northing (SFT)	1,686,482.5365	
Easting (SFT)	1,302,274.8987	
Elevation (SFT)*		

Convergence Angle	0	1	6.6316045
Scale Factor			0.999935925
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	41	41.5315716	
Longitude	92	1	59.0507652	
Ellipsoid Height (M):	13.634			
Geoid Height (M):	-26.542			

Location Description

FROM THE BRADLEY COUNTY COURTHOUSE IN WARREN, GO NORTH ON HWY. 15 FOR 0.32 KM (0.20 MILES) TO A "T" JCT., GO RIGHT (EAST) FOR 0.16 KM (0.10 MILES) TO ANOTHER "T" JCT., GO LEFT (NORTH) ON HWY. 15 FOR 5.79 KM (3.62 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.10 METERS EAST OF THE CENTERLINE OF HWY. 15, 5.70 METERS SOUTH OF A BRIDGE END (BRIDGE NO. 1475R) AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "060002 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN SIXTH METAL GUARD RA IL POST	24	2.10	6.9
MK # 2	PUNCH POINT IN TENTH METAL GUARD RA IL POST	231	3.75	12.3
MK # 3	NONE			

AZ Mark Station	06002A
Geodetic Azimuth	34 21 54.532709
Grid Azimuth	34 23 01.135583

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060002A	1/12/1994	AHTD	BRADLEY	15	R70095

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	514,482.3261	
Easting (M)	397,236.2450	
Elevation (M)*		
Northing (SFT)	1,687,930.7649	
Easting (SFT)	1,303,265.9138	
Elevation (SFT)*		

Convergence Angle	0	1	0.0694679
Scale Factor			0.999935518
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	41	55.8625812	
Longitude	92	1	47.3261880	
Ellipsoid Height (M):	14.653			
Geoid Height (M):	-26.541			

Location Description

FROM THE BRADLEY COUNTY COURTHOUSE IN WARREN, GO NORTH ON HWY. 15 FOR 10.33 KM (6.42 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.10 METERS WEST OF THE CENTERLINE OF HWY. 15, 21.70 METERS EAST OF OLD HWY. 15 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "06002A 1994" AND IS SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060002
Geodetic Azimuth	214 22 01.0375
Grid Azimuth	214 23 01.13558

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060003	5/14/1996	AHTD	BRADLEY	15	R70105

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	468,652.8769
Easting (M)	367,889.2319
Elevation (M)*	34.150
Northing (SFT)	1,537,571.9803
Easting (SFT)	1,206,983.2550
Elevation (SFT)*	112.040
Convergence Angle	0 11 34.5620820
Scale Factor	1.000003331
Elevation Adjust. Factor	0.9999946408
Combined Adjust. Factor	0.9999979718

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 17 6.5457996
Longitude	92 20 40.9748784
Ellipsoid Height (M):	7.424
Geoid Height (M):	-26.726

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 17.54 KM. (10.90 MI.) TO THE JUNCTION WITH HWY-275 SOUTH, CONTINUE EASTERLY ON HWY-15 FOR 2.09 KM. (1.30 MI.) CROSSING OVER THE OUACHITA RIVER BRIDGE TO THE STATION ON THE LEFT NEAR THE NORTH END OF THE BRIDGE. 11.86 METERS NORTH OF THE BRIDGE END, 6.5 METERS WEST OF THE CENTER OF HWY-15 AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	1st GUARD RAIL POST NORTH OF THE BRIDGE	189	6.21	20.4
MK # 2	8th GUARD RAIL POST NORTH OF THE BRIDGE	161	1.14	3.7
MK # 3	10th GUARD RAIL POST NORTH OF THE BRIDGE	28	2.92	9.6

AZ Mark Station	700007
Geodetic Azimuth	203 29 48.32102
Grid Azimuth	203 41 22.95541

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL 1986
Ref Mon # 2	WARRPORT 1986
Ref Mon # 3	700003

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060005	2/5/1998	AHTD	BRADLEY	4	001800,070159

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,122.0902	
Easting (M)	395,513.6640	
Elevation (M)*	53.317	
Northing (SFT)	1,653,940.5576	
Easting (SFT)	1,297,614.4126	
Elevation (SFT)*	174.924	

Convergence Angle	0	1	37.4029628
Scale Factor	0.999946321		
Elevation Adjust. Factor	0.9999916329		
Combined Adjust. Factor	0.9999379543		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	19.5595596
Longitude	92	2	54.0299868
Ellipsoid Height (M):	27.484		
Geoid Height (M):	-25.748		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 4B, LOCATED ON THE EAST SIDE OF WARREN, GO SOUTH ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 0.50 KM (0.32 MI) TO THE STATION ON THE LEFT. THE STATION IS 25.535 METERS NORTH OF A GRAVEL DRIVE, 17.133 METERS EAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGWAY 4 AND 2.250 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	30	21.18	69.5
MK # 2	TELEPHONE JUNCTION BOX	188	17.95	58.9
MK # 3	NORTH END OF 0.42 METER CMP	208	22.03	72.3

AZ Mark Station	060005A
Geodetic Azimuth	9 42 16.37699
Grid Azimuth	9 43 53.76989

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060005A	2/5/1998	AHTD	BRADLEY	4	001800 , 020462 , 070159

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,612.0972	
Easting (M)	395,597.7000	
Elevation (M)*	56.420	
Northing (SFT)	1,655,548.1889	
Easting (SFT)	1,297,890.1208	
Elevation (SFT)*	185.104	

Convergence Angle	0	1	35.5833854
Scale Factor	0.999945751		
Elevation Adjust. Factor	0.9999911460		
Combined Adjust. Factor	0.9999368974		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	35.4659436
Longitude	92	2	50.7789456
Ellipsoid Height (M):	30.630		
Geoid Height (M):	-25.748		

Location Description

THE STATION IS LOCATED ON THE EAST SIDE OF WARREN, AT THE JUNCTION OF U.S. HIGWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 4B. THE STATION IS 13.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGWAY 4, 8.40 METERS EAST OF THE CENTER OF LURALEA LANE AND 0.41 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LOND AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MAN HOLE COVER	81	8.50	27.9
MK # 2	R/W SIGN	28	7.20	23.6
MK # 3	POWER POLE	284	22.00	72.2

AZ Mark Station	060005
Geodetic Azimuth	189 42 18.17647
Grid Azimuth	189 43 53.76989

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060006	2/5/1998	AHTD	BRADLEY	172	001800

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,282.5482	
Easting (M)	401,307.2420	
Elevation (M)*	35.591	
Northing (SFT)	1,654,466.9936	
Easting (SFT)	1,316,622.1765	
Elevation (SFT)*	116.768	

Convergence Angle	0	0	28.3820475
Scale Factor			0.999946133
Elevation Adjust. Factor			0.9999944146
Combined Adjust. Factor			0.9999405479

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	24.7993200
Longitude	91	59	9.2897628
Ellipsoid Height (M):	9.869		
Geoid Height (M):	-25.722		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 172, LOCATED ABOUT 7.24 KM (4.50 MI) EAST OF WARREN, GO SOUTH ON STATE HIGHWAY 172 FOR 0.37 KM (0.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.390 METERS EAST OF THE CENTER OF STATE HIGHWAY 172 AND 0.500 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF EAST HEADWALL	169	37.78	123.9
MK # 2	NORTH END OF WEST HEADWALL	200	41.53	136.2
MK # 3	NBC IN 0.23 METER OAK TREE	116	22.40	73.5

AZ Mark Station	060006A
Geodetic Azimuth	350 53 30.11404
Grid Azimuth	350 53 01.73911

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060006A	2/5/1998	AHTD	BRADLEY	4	001800

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,652.2621	
Easting (M)	401,247.9160	
Elevation (M)*	36.789	
Northing (SFT)	1,655,679.9632	
Easting (SFT)	1,316,427.5377	
Elevation (SFT)*	120.699	

Convergence Angle	0	0	27.0950529
Scale Factor	0.999945703		
Elevation Adjust. Factor	0.9999942266		
Combined Adjust. Factor	0.9999399300		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	36.8001036
Longitude	91	59	11.5892376
Ellipsoid Height (M):	11.067		
Geoid Height (M):	-25.722		

Location Description

THE STATION IS LOCATED ABOUT 7.24 KM (4.50 MI) EAST OF WARREN AT THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 172, THE STATION IS 7.173 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 0.500 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF EAST HEADWALL	148	36.47	119.6
MK # 2	NORTH END OF WEST HEADWALL	173	34.55	113.4
MK # 3	NBC IN 0.80 METER PINE TREE	307	41.34	135.6

AZ Mark Station	060006
Geodetic Azimuth	170 53 28.84125
Grid Azimuth	170 53 01.73911

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060007	2/4/1999	AHTD	BRADLEY	15	070182,070204,070159

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,079.3422	
Easting (M)	394,101.4560	
Elevation (M)*	58.714	
Northing (SFT)	1,663,642.8085	
Easting (SFT)	1,292,981.1936	
Elevation (SFT)*	192.631	

Convergence Angle	0	2	8.1033165
Scale Factor	0.999942970		
Elevation Adjust. Factor	0.9999907859		
Combined Adjust. Factor	0.9999337565		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	55.5237300
Longitude	92	3	48.8823444
Ellipsoid Height (M):	32.959		
Geoid Height (M):	-25.757		

Location Description

THE STATION IS AT THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 15B, LOCATED ON THE NORTH SIDE OF WARREN. THE STATION IS 38.87 METERS WEST OF THE CENTER OF STATE HIGHWAY 15 (SMITH ROAD), 27.53 METERS EAST OF THE CENTER OF A PAVED DRIVE, 11.06 METERS NORTH OF THE CENTER OF STATE HIGHWAY 15 (MYRTLE STREET) OLD STATE HIGHWAY 376 AND 1.45 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "060007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF RCP	90	16.68	54.7
MK # 2	WOODEN GATE POST	271	25.18	82.6
MK # 3	TELEPHONE JUNCTION BOX	22.86	22.86	75.0

AZ Mark Station	060007A
Geodetic Azimuth	266 37 13.36589
Grid Azimuth	266 39 21.51571

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	K 124
Ref Mon # 3	060005

Comments

Elevations based on NGS POINT WARREN MAG STATION

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060007A	2/4/1999	AHTD	BRADLEY	15	070182,070204,070159

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,055.3402	
Easting (M)	393,690.6760	
Elevation (M)*	57.757	
Northing (SFT)	1,663,564.0620	
Easting (SFT)	1,291,633.4928	
Elevation (SFT)*	189.491	

Convergence Angle	0	2	17.0242002
Scale Factor	0.999942997		
Elevation Adjust. Factor	0.9999909361		
Combined Adjust. Factor	0.9999339336		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	54.7360824
Longitude	92	4	4.8212976
Ellipsoid Height (M):	31.981		
Geoid Height (M):	-25.759		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 15B, LOCATED ON THE NORTH SIDE OF WARRREN, GO WEST ON STATE HIGHWAY 15 (OLD STATE HIGHWAY 376) FOR 0.45 KM (0.28 MI) TO THE STATION ON THE LEFT. THE STATION IS 28.30 METERS EAST OF THE CENTER OF A PAVED ENTRANCE TO A WELDING SHOP, 10.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 15 (OLD STATE HIGHWAY 376) AND 1.00 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	90	19.75	64.8
MK # 2	EAST END OF CMP	275	22.45	73.7
MK # 3				

AZ Mark Station	060007A
Geodetic Azimuth	86 37 04.538006
Grid Azimuth	86 39 21.515708

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	K 124
Ref Mon # 3	060005

Comments

Elevations based on NGS POINT WARREN MAG STATION

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060008	2/11/1999	AHTD	BRADLEY	8	R70123

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	496,296.7342	
Easting (M)	394,402.1930	
Elevation (M)*	73.936	
Northing (SFT)	1,628,266.8688	
Easting (SFT)	1,293,967.8615	
Elevation (SFT)*	242.572	

Convergence Angle	0	2	1.4341108
Scale Factor			0.999956227
Elevation Adjust. Factor			0.9999883972
Combined Adjust. Factor			0.9999446247

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	32	5.5374108
Longitude	92	3	36.9664668
Ellipsoid Height (M):	48.240		
Geoid Height (M):	-25.754		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 54.25 METERS NORTH OF THE CENTER OF A GRAVEL ROAD, 8.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060008A
Geodetic Azimuth	339 56 57.37497
Grid Azimuth	339 58 58.82411

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	060005A

Comments

NO LOG MILE BECAUSE THIS SECTION OF HIGHWAY 8 IS NOT IN OUR LOG MILE BOOK. ELEV BASED ON NGS POINT SUMPTER

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060008A	2/11/1999	AHTD	BRADLEY	8	R70123

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	496,590.5062
Easting (M)	394,295.1700
Elevation (M)*	74.272
Northing (SFT)	1,629,230.6858
Easting (SFT)	1,293,616.7369
Elevation (SFT)*	243.674
Convergence Angle	0 2 3.7596021
Scale Factor	0.999955828
Elevation Adjust. Factor	0.9999883444
Combined Adjust. Factor	0.9999441730

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 32 15.0708876
Longitude	92 3 41.1214248
Ellipsoid Height (M):	48.580
Geoid Height (M):	-25.754

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 1.24 KM (0.77 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.50 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.54 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060008
Geodetic Azimuth	159 56 55.07950
Grid Azimuth	159 58 58.82411

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	060005A

Comments

NO LOG MILE BECAUSE THIS SECTION OF HIGHWAY 8 IS NOT IN OUR LOG MILE BOOK.ELEV BASED ON NGS POINT SUMPTER

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060009	2/11/1999	AHTD	BRADLEY	8	R70123,070197

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	491,767.5862	
Easting (M)	395,301.7920	
Elevation (M)*	87.262	
Northing (SFT)	1,613,407.4891	
Easting (SFT)	1,296,919.2959	
Elevation (SFT)*	286.292	

Convergence Angle	0	1	41.8704477
Scale Factor			0.999962645
Elevation Adjust. Factor			0.9999863059
Combined Adjust. Factor			0.9999489514

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	29	38.5391508
Longitude	92	3	2.0143008
Ellipsoid Height:			61.499
Grid Northing (Meters)			491,767.5102
Grid Easting (Meters)			395,301.7338

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	29	38.5416168
Longitude	92	3	2.0120472
Ellipsoid Height (M):	61.558		
Geoid Height (M):	-25.763		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 6.76 KM (4.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER FENCE POST	135	4.70	15.4
MK # 2	0.32 METER PECAN TREE	22	14.75	48.4
MK # 3	NONE			

AZ Mark Station	060009A
Geodetic Azimuth	181 20 42.34968
Grid Azimuth	181 22 24.22178

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	060005A

Comments

ELEV BASED ON NGS POINT SUMPTER

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060009A	2/11/1999	AHTD	BRADLEY	8	R70123,070197

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	491,309.1581
Easting (M)	395,290.8010
Elevation (M)*	82.777
Northing (SFT)	1,611,903.4629
Easting (SFT)	1,296,883.2363
Elevation (SFT)*	271.578

Convergence Angle	0	1	42.1038421
Scale Factor			0.999963323
Elevation Adjust. Factor			0.9999870098
Combined Adjust. Factor			0.9999503332

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	29	23.6587992
Longitude	92	3	2.4314976
Ellipsoid Height:			57.010
Grid Northing (Meters)			491,309.0803
Grid Easting (Meters)			395,290.7379

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	29	23.6613264
Longitude	92	3	2.4290532
Ellipsoid Height (M):	57.012		
Geoid Height (M):	-25.765		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 15, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTH ON STATE HIGHWAY 8 FOR 7.24 KM (4.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS WEST OF THE CENTER OF STATE HIGHWAY 8, 6.35 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD TO A WATER TANK AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	52	21.50	70.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060009
Geodetic Azimuth	1 20 42.119571
Grid Azimuth	1 22 24.221776

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	060005A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060010	2/28/2001	AHTD	BRADLEY	8	070197

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	488,488.0916
Easting (M)	395,893.2620
Elevation (M)*	
Northing (SFT)	1,602,648.0139
Easting (SFT)	1,298,859.8104
Elevation (SFT)*	
Convergence Angle	0 1 29.0150166
Scale Factor	0.999967606
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	27	52.1013960
Longitude	92	2	39.0432336
Ellipsoid Height (M):	47.245		
Geoid Height (M):	-25.769		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 11.75 KM (7.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060010 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 735.100 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060010A
Geodetic Azimuth	171 07 35.89549
Grid Azimuth	171 09 04.89228

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060010A	2/28/2001	AHTD	BRADLEY	8	070197

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	487,761.7673	
Easting (M)	396,006.3344	
Elevation (M)*		
Northing (SFT)	1,600,265.0649	
Easting (SFT)	1,299,230.7821	
Elevation (SFT)*		

Convergence Angle	0	1	26.5575261
Scale Factor			0.999968740
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	27	28.5272028
Longitude	92	2	34.6524324
Ellipsoid Height (M):	43.064		
Geoid Height (M):	-25.770		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 11.02 KM (6.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.30 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060010A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUJND. THE SHOT DISTANCE IS 735.100 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060010
Geodetic Azimuth	351 07 38.31646
Grid Azimuth	351 09 04.89228

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060011	2/28/2001	AHTD	BRADLEY	8	070197

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	485,349.5884	
Easting (M)	397,901.2884	
Elevation (M)*		
Northing (SFT)	1,592,351.1079	
Easting (SFT)	1,305,447.8104	
Elevation (SFT)*		

Convergence Angle	0	0	45.4753288
Scale Factor	0.999972599		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	26	10.2500052	
Longitude	92	1	21.2508228	
Ellipsoid Height (M):	43.046			
Geoid Height (M):	-25.764			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 7.61 KM (4.73 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060011 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 387.270.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060011A
Geodetic Azimuth	284 46 55.42133
Grid Azimuth	284 47 40.95957

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060011A	2/28/2001	AHTD	BRADLEY	8	070197

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	485,448.4763
Easting (M)	397,526.8733
Elevation (M)*	
Northing (SFT)	1,592,675.5427
Easting (SFT)	1,304,219.4168
Elevation (SFT)*	
Convergence Angle	0 0 53.5887931
Scale Factor	0.999972438
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	26	13.4568852
Longitude	92	1	35.7471588
Ellipsoid Height (M):	42.212		
Geoid Height (M):	-25.766		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 7.97 KM (4.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060011A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 387.270 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060011
Geodetic Azimuth	104 46 47.43365
Grid Azimuth	104 47 40.95957

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060012	2/28/2001	AHTD	BRADLEY	8	070197

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	482,304.1181	
Easting (M)	398,695.5637	
Elevation (M)*		
Northing (SFT)	1,582,359.4275	
Easting (SFT)	1,308,053.6952	
Elevation (SFT)*		

Convergence Angle	0	0	28.2557645
Scale Factor	0.999977676		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	24	31.4017740
Longitude	92	0	50.4846072
Ellipsoid Height (M):	32.143		
Geoid Height (M):	-25.764		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 4.18 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.35 METERS WEST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060012 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 458.088 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060012A
Geodetic Azimuth	175 39 09.81611
Grid Azimuth	175 39 38.06576

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060012A	2/28/2001	AHTD	BRADLEY	8	070197

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	481,847.3534	
Easting (M)	398,730.2241	
Elevation (M)*		
Northing (SFT)	1,580,860.8586	
Easting (SFT)	1,308,167.4102	
Elevation (SFT)*		

Convergence Angle	0	0	27.5036557
Scale Factor	0.999978457		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	24	16.5758184
Longitude	92	0	49.1408136
Ellipsoid Height (M):	41.221		
Geoid Height (M):	-25.764		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO NORTH ON STATE HIGHWAY 8 FOR 3.70 KM (2.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 9.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060012A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 458.088 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	155	6.65	21.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060012A
Geodetic Azimuth	355 39 10.55598
Grid Azimuth	355 39 38.06576

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060013	2/28/2001	AHTD	BRADLEY	160	070197,001941

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	478,323.0144	
Easting (M)	398,476.0477	
Elevation (M)*		
Northing (SFT)	1,569,298.0897	
Easting (SFT)	1,307,333.4998	
Elevation (SFT)*		

Convergence Angle	0	0	32.9969656
Scale Factor			0.999984655
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	22	22.1782980	
Longitude	92	0	58.9557168	
Ellipsoid Height (M):			35.017	
Geoid Height (M):			-25.770	

Location Description

THE STATION IS LOCATED IN JOHNSVILLE AT THE JUNCTION OF STATE HIGHWAY 160, STATE HIGHWAY 8 AND COUNTY ROAD 56. THE STATION IS 12.80 WEST-NORTHWEST OF THE CENTER OF COUNTY ROAD 56, 8.30 METERS SOUTH-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 160, 3.30 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL DRIVE AND 2.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060013 2001" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 508.342 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060013A
Geodetic Azimuth	53 34 16.498658
Grid Azimuth	53 34 49.419732

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060013A	2/28/2001	AHTD	BRADLEY	8	070197,001941

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	478,624.8063	
Easting (M)	398,885.0950	
Elevation (M)*		
Northing (SFT)	1,570,288.2187	
Easting (SFT)	1,308,675.5158	
Elevation (SFT)*		

Convergence Angle	0	0	24.1409452
Scale Factor	0.999984112		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	22	31.9759752	
Longitude	92	0	43.1326548	
Ellipsoid Height (M):	37.180			
Geoid Height (M):	-25.766			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE GO EAST ON STATE HIGHWAY 8 FOR 0.51 KM (0.32 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.70 METERS NORTH-NORTHWEST OF THE CENTER OF STATE HIGHWAY 8 AND 0.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 508.342 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	060013
Geodetic Azimuth	233 34 25.20210
Grid Azimuth	233 34 49.41973

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060014	3/28/2001	AHTD	BRADLEY	63	070204

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	495,260.7468	
Easting (M)	391,860.5155	
Elevation (M)*	73.912	
Northing (SFT)	1,624,867.9668	
Easting (SFT)	1,285,629.0413	
Elevation (SFT)*	242.493	

Convergence Angle	0	2	56.5518642
Scale Factor			0.999957653
Elevation Adjust. Factor			0.9999884009
Combined Adjust. Factor			0.9999460544

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	31	31.8507132
Longitude	92	5	15.4454208
Ellipsoid Height (M):	47.967		
Geoid Height (M):	-25.773		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 8, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTHWEST ON U.S. HIGHWAY 63 FOR 2.70 KM (1.67 MI) TO THE STATION ON THE LEFT. THE STATION IS 47.30 METERS NORTHEAST OF THE CENTER OF COUNTY ROAD 33, 11.25 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.105 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	R/W MARKER SIGN	65	3.92	12.9
MK # 2	COVER OF WATER METER	131	6.51	21.4
MK # 3	NONE			

AZ Mark Station	060014A
Geodetic Azimuth	57 22 55.235677
Grid Azimuth	57 25 51.724257

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	S 197
Ref Mon # 3	STELL

Comments

Elevation based on Job BM Marked 243.494 Feet (?7715?)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060014A	3/28/2001	AHTD	BRADLEY	63	070204

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	495,543.9415	
Easting (M)	392,303.8637	
Elevation (M)*	74.035	
Northing (SFT)	1,625,797.0814	
Easting (SFT)	1,287,083.5928	
Elevation (SFT)*	242.896	

Convergence Angle	0	2	46.9402654
Scale Factor			0.999957261
Elevation Adjust. Factor			0.9999883816
Combined Adjust. Factor			0.9999456431

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	31	41.0549088
Longitude	92	4	58.2723660
Ellipsoid Height (M):	48.089		
Geoid Height (M):	-25.768		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 8, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF WARREN, GO SOUTHWEST ON U.S. HIGHWAY 63 FOR 2.17 KM (1.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.10 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.63 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "060014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.105 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER SIGN	55	5.62	18.4
MK # 2	R/W MARKER SIGN	145	0.71	2.3
MK # 3	NONE			

AZ Mark Station	060014
Geodetic Azimuth	237 23 04.72082
Grid Azimuth	237 25 51.72426

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	S 197
Ref Mon # 3	STELL

Comments

Elevation based on Job BM Marked 243.494 Feet (?7715?)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060015	3/5/2002	AHTD	BRADLEY	8	001941

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	479,160.7061	
Easting (M)	402,637.5390	
Elevation (M)*	29.007	
Northing (SFT)	1,572,046.4166	
Easting (SFT)	1,320,986.6592	
Elevation (SFT)*	95.167	

Convergence Angle	0	0	57.1136234
Scale Factor	0.999983155		
Elevation Adjust. Factor	0.9999954479		
Combined Adjust. Factor	0.9999786030		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	22	49.3609764
Longitude	91	58	17.9550228
Ellipsoid Height (M):	3.432		
Geoid Height (M):	-25.737		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE, GO EAST ON STATE HIGHWAY 8 FOR 2.68 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.5 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 11.70 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8, AND 1.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "060015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END CORRIGATED METAL PIPE	60	24.20	79.4
MK # 2	POWER POLE	90	15.00	49.2
MK # 3				

AZ Mark Station	060015A
Geodetic Azimuth	265 13 03
Grid Azimuth	265 12 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060015A	3/5/2002	AHTD	BRADLEY	8	001941

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	479,115.8091	
Easting (M)	402,102.7020	
Elevation (M)*	29.304	
Northing (SFT)	1,571,899.1170	
Easting (SFT)	1,319,231.9481	
Elevation (SFT)*	96.142	

Convergence Angle	0	0	45.5319774
Scale Factor			0.999983234
Elevation Adjust. Factor			0.9999954013
Combined Adjust. Factor			0.9999786353

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	22	47.9079876	
Longitude	91	58	38.6479632	
Ellipsoid Height (M):	3.713			
Geoid Height (M):	-25.741			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 160, LOCATED IN JOHNSVILLE, GO EAST ON STATE HIGHWAY 8 FOR 2.34 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 8 AND 1.00 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 54 mm CAP STAMPED "060015A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVEL ON THIS STATION BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EASTERN WOODEN BRACE POST	120	2.10	6.9
MK # 2	CENTER WOODEN BRACE POST	170	1.30	4.3
MK # 3	WESTERN WOODEN BRACE POST	221	2.30	7.5

AZ Mark Station	060015
Geodetic Azimuth	85 12 51
Grid Azimuth	85 12 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	060013
Ref Mon # 2	020009
Ref Mon # 3	FOUNTAIN AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060016	9/19/2006	AHTD	Bradley	NA	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	500,772.5922	
Easting (M)	396,047.7980	
Elevation (M)*	54.507	
Northing (SFT)	1,642,951.4129	
Easting (SFT)	1,299,366.8173	
Elevation (SFT)*	178.828	

Convergence Angle	0	1	25.7761249
Scale Factor			0.999950377
Elevation Adjust. Factor			0.9999914461
Combined Adjust. Factor			0.9999418236

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	34	30.8460396
Longitude	92	2	33.2563020
Ellipsoid Height (M):	28.761		
Geoid Height (M):	-25.746		

Location Description

To reach the station from the junction of highways 278 and 278B east of Warren go west on hwy-278 for 1.40 miles to county road 24 on the left, turn left on cr24 and go 1.30 miles to a private driveon the right, turn right through a gate and onto the property of Charles Goins. Continue ahead for 0.05 miles to the mark on the left near the end of a garden. 13.6 feet from the center of the gravel drive and 1.5 feet east of a witness post. The station mark is a 2 1/ inch cap stamped "060016 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. NOTE: there is no azimuth mark for this station.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Service pole with light	190	67.24	220.6
MK # 2				
MK # 3				

AZ Mark Station	None
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060017	9/19/2006	AHTD	Bradley	NA	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	503,776.4971
Easting (M)	397,416.5120
Elevation (M)*	36.922
Northing (SFT)	1,652,806.7242
Easting (SFT)	1,303,857.3398
Elevation (SFT)*	121.136

Convergence Angle	0	0	56.0881409
Scale Factor			0.999946726
Elevation Adjust. Factor			0.9999942057
Combined Adjust. Factor			0.9999409320

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	36	8.3649528	
Longitude	92	1	40.2127464	
Ellipsoid Height (M):	11.194			
Geoid Height (M):	-25.741			

Location Description

To reach the station from hwy-278 and 278B east of Warren go east on 278 for 0.20 miles to county road 44 on the right. Go right on CR44 and go 1.4 miles to a gravel road on the left. Turn left and go 0.10 miles to a gated road on the left at the Water treatment plant. Pass through the gate and go 0.20 miles to a road left, go left and follow the road around the ponds to the lift station and the station on the left. The station mark is a 2 1/2 inch cap stamped "060017 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. Sewer plant manager is Travis Smith 870-820-2217 for access through the gate.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Manhole	15	4.21	13.8
MK # 2	SW corner of concrete sewer lift station	75	6.74	22.1
MK # 3	Fence corner	325	30.60	100.4

AZ Mark Station	060017A
Geodetic Azimuth	164 56 28
Grid Azimuth	164 57 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060017A	9/19/2006	AHTD	Bradley	NA	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	503,301.9312	
Easting (M)	397,544.0560	
Elevation (M)*	37.144	
Northing (SFT)	1,651,249.7526	
Easting (SFT)	1,304,275.7904	
Elevation (SFT)*	121.863	

Convergence Angle	0	0	53.3164671
Scale Factor	0.999947288		
Elevation Adjust. Factor	0.9999941710		
Combined Adjust. Factor	0.9999414593		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	35	52.9621368
Longitude	92	1	35.2605936
Ellipsoid Height (M):	11.454		
Geoid Height (M):	-25.740		

Location Description

To reach the station from hwy-278 and 278B east of Warren go east on 278 for 0.20 miles to county road 44 on the right. Go right on CR44 and go 1.4 miles to a gravel road on the left. Turn left and go 0.10 miles to a gated road on the left at the Water treatment plant. Pass through the gate and go 0.20 miles to a road left, go left along the top of the ponds for 0.15 miles to the station on the right at the SE corner of a pond. The station mark is a 2 1/2 inch cap stamped "060017A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. Sewer plant manager is Travis Smith 870-820-2217 for access through the gate.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	251	25.45	83.5
MK # 2				
MK # 3				

AZ Mark Station	060017
Geodetic Azimuth	344 56 31
Grid Azimuth	344 57 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060018	9/20/2006	AHTD	Bradley	172	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	501,800.7811	
Easting (M)	401,220.3630	
Elevation (M)*	35.038	
Northing (SFT)	1,646,324.7293	
Easting (SFT)	1,316,337.1409	
Elevation (SFT)*	114.955	

Convergence Angle	0	0	26.4888642
Scale Factor			0.999949102
Elevation Adjust. Factor			0.9999945014
Combined Adjust. Factor			0.9999436037

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	35	4.2441252	
Longitude	91	59	12.6723156	
Ellipsoid Height (M):	9.358			
Geoid Height (M):	-25.723			

Location Description

To reach the station from the junction of highways 278 and 172 east of Warren go south on hwy-172 for 1.80 miles to the station on the right. 19.1 feet west of the center of hwy-172 and 1.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "060018 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW corner of bridge end	160	7.53	24.7
MK # 2	NE corner of bridge end	117	12.13	39.8
MK # 3				

AZ Mark Station	060018A
Geodetic Azimuth	359 40 08
Grid Azimuth	359 39 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060018A	9/20/2006	AHTD	Bradley	172	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	502,490.4812	
Easting (M)	401,216.2910	
Elevation (M)*	34.898	
Northing (SFT)	1,648,587.5204	
Easting (SFT)	1,316,323.7814	
Elevation (SFT)*	114.493	

Convergence Angle	0	0	26.4023953
Scale Factor	0.999948261		
Elevation Adjust. Factor	0.9999945235		
Combined Adjust. Factor	0.9999427847		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	35	26.6310924
Longitude	91	59	12.8268096
Ellipsoid Height (M):	9.221		
Geoid Height (M):	-25.723		

Location Description

To reach the station from the junction of highways 278 and 172 east of Warren go south on hwy-172 for 1.35 miles to the station on the right. 19.5 feet west of the center of hwy-172, 12.0 feet south of a driveway and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "060018A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Five inch Black Walnut tree	313	16.55	54.3
MK # 2				
MK # 3				

AZ Mark Station	060018
Geodetic Azimuth	179 40 08
Grid Azimuth	179 39 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060019	10/10/2006	AHTD	Bradley	278	001873, 020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,306.4852	
Easting (M)	398,833.6920	
Elevation (M)*	38.105	
Northing (SFT)	1,654,545.5269	
Easting (SFT)	1,308,506.8712	
Elevation (SFT)*	125.017	

Convergence Angle	0	0	25.3222369
Scale Factor			0.999946105
Elevation Adjust. Factor			0.9999940201
Combined Adjust. Factor			0.9999401254

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	36	25.5768840	
Longitude	92	0	45.2432700	
Ellipsoid Height (M):	12.421			
Geoid Height (M):	-25.735			

Location Description

To reach the station from the junction of highways 278 and 172 west of Wilmar go west on hwy-278 for 1.45 miles to the station on the right. 42.0 feet northwest of the center of hwy-278 and 1.5 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "060019 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW bridge corner	83	2.96	9.7
MK # 2	West end of curb	234	2.13	7.0
MK # 3				

AZ Mark Station	060019A
Geodetic Azimuth	83 53 06
Grid Azimuth	83 53 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060019A	10/10/2006	AHTD	Bradley	278	001873, 020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,364.8742	
Easting (M)	399,379.3360	
Elevation (M)*	38.008	
Northing (SFT)	1,654,737.0914	
Easting (SFT)	1,310,297.0382	
Elevation (SFT)*	124.699	

Convergence Angle	0	0	13.4755990
Scale Factor	0.999946037		
Elevation Adjust. Factor	0.9999940353		
Combined Adjust. Factor	0.9999400726		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	27.4737960
Longitude	92	0	24.0768684
Ellipsoid Height (M):	12.328		
Geoid Height (M):	-25.733		

Location Description

To reach the station from the junction of highways 278 and 172 west of Wilmar go west on hwy-278 for 1.15 miles to the station on the left near the end of the Saline river bridge. 44.9 feet south of the center of hwy-278 and 1.5 feet north of a witness post. The statiom mark is a 2 1/2 inch cap stamped "060019A 2006 set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SE end of bridge corner	300	1.95	6.4
MK # 2	East end of curb	58	3.32	10.9
MK # 3				

AZ Mark Station	060019
Geodetic Azimuth	263 53 18
Grid Azimuth	263 53 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060020	4/26/2017	AHTD	BRADLEY	160	070418

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	474,208.7219	0.0021
Easting (M)	388,224.0338	0.0021
Elevation (M)*		
Northing (SFT)	1,555,799.7818	
Easting (SFT)	1,273,698.3509	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	20	8.4007032	
Longitude	92	7	35.3689032	
Ellipsoid Height (M):	9.061	0.0044		
Geoid Height (M):	-25.991	0.0044		

Convergence Angle	0	4	14.8657342
Scale Factor	0.999992288		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 8 WEST AND STATE HIGHWAY 160 WEST, IN JOHNSVILLE, GO WEST ON HIGHWAY 160 7.7 MILES TO THE MARK ON THE RIGHT, 17.6' NORTH OF THE C/L OF THE HIGHWAY AND SOUTH 42' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 060020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	C/L HDWL	51	5.97	19.6
MK # 2				
MK # 3				

AZ Mark Station	060020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	LTEC, 1ULM

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM W 201, 2ND ORDER NGS BM T 83 & AHTD CORS SITE ARCM IN FINAL STATIC NETWORK ADJ.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060020A	4/26/2017	AHTD	BRADLEY	160	070418

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	474,100.7363	0.0021
Easting (M)	388,597.0131	0.0020
Elevation (M)*		
Northing (SFT)	1,555,445.4990	
Easting (SFT)	1,274,922.0338	
Elevation (SFT)*		

Convergence Angle	0	4	6.7906032
Scale Factor	0.999992493		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	20	4.9103376	
Longitude	92	7	20.9410572	
Ellipsoid Height (M):	10.310			0.0044
Geoid Height (M):	-25.986			0.0044

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 8 WEST AND STATE HIGHWAY 160 WEST, IN JOHNSVILLE, GO WEST ON HIGHWAY 160 7.45 MILES TO THE MARK ON THE RIGHT, 23' SOUTH SOUTHWEST OF THE C/L OF THE HIGHWAY AND NORTH NORTHEAST 34' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 060020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PP W/GUY	104	23.93	78.5
MK # 2				
MK # 3				

AZ Mark Station	060020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	LTEC, 1ULM

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM W 201, 2ND ORDER NGS BM T 83 & AHTD CORS SITE ARCM IN FINAL STATIC NETWORK ADJ.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060021	6/13/2018	ARDOT	BRADLEY	8	HWY 8 DRAINAGE STUDY

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	479,115.4266	0.0020
Easting (M)	402,112.5859	0.0020
Elevation (M)*		
Northing (SFT)	1,571,897.8621	
Easting (SFT)	1,319,264.3756	
Elevation (SFT)*		

Convergence Angle	0	0	45.7460026
Scale Factor	0.999983235		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	22	47.8954992
Longitude	91	58	38.2655640
Ellipsoid Height (M):	3.747		0.0410
Geoid Height (M):	-25.833		0.0410

Location Description

"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 2 MILES TO THE STATION ON THE LEFT. 40' SOUTH OF THE C/L OF SR-8, 11.5' NORTH OF FENCE. THE MARK IS A STANDARD 2½"" CAP STAMPED ""060021 2018"" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/GUY	95	41.75	137.0
MK # 2	FENCE COR W/BRACE	255	35.05	115.0
MK # 3				

AZ Mark Station	060021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	ARCM
Ref Mon # 3	1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
060021A	6/13/2018	ARDOT	BRADLEY	8	HWY 8 DRAINAGE STUDY

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	479,141.0478	0.0030
Easting (M)	402,570.0106	0.0030
Elevation (M)*		
Northing (SFT)	1,571,981.9210	
Easting (SFT)	1,320,765.1098	
Elevation (SFT)*		

Convergence Angle	0	0	55.6512409
Scale Factor	0.999983190		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	Level - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	22	48.7234884
Longitude	91	58	20.5678632
Ellipsoid Height (M):	4.903	0.0410	
Geoid Height (M):	-25.830	0.0410	

Location Description

"TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-160, WEST OF FOUNTAIN HILL, GO WEST ON SR-8 1.7 MILES TO THE STATION ON THE LEFT. 25' SOUTH OF THE C/L OF SR-8. THE MARK IS A STANDARD 2½"" CAP STAMPED ""060021A 2018"" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND."

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	150	10.06	33.0
MK # 2				
MK # 3				

AZ Mark Station	060021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	ARCM
Ref Mon # 3	1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070001	1/22/2003	AHTD	CALHOUN	205	070198

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	524,514.7221
Easting (M)	348,596.7790
Elevation (M)*	
Northing (SFT)	1,720,845.3841
Easting (SFT)	1,143,687.9324
Elevation (SFT)*	
Convergence Angle	0 18 38.4065161
Scale Factor	0.999927662
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	47	16.9908180
Longitude	92	33	18.2582208
Ellipsoid Height (M):	64.424		
Geoid Height (M):	-26.045		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 205 AND HIGHWAY 274, NORTH OF HAMPTON AND WEST OF FORDYCE, GO SOUTH ON HIGHWAY 205 0.20 MILES TO THE STATION ON THE RIGHT. SOUTH 15.50 METERS OF THE CENTER OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "070001 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	110	7.40	24.3
MK # 2	TELEPHONE RISER	102	20.40	66.9
MK # 3	GUY	170	4.75	15.6

AZ Mark Station	070001A
Geodetic Azimuth	97 54 26
Grid Azimuth	98 13 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1 (LROC)
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070001A	1/22/2003	AHTD	CALHOUN	205	070198

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	524,425.0161
Easting (M)	349,217.9180
Elevation (M)*	
Northing (SFT)	1,720,551.0737
Easting (SFT)	1,145,725.7860
Elevation (SFT)*	
Convergence Angle	0 18 24.8818787
Scale Factor	0.999927720
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	47	14.1877860
Longitude	92	32	54.0937356
Ellipsoid Height (M):	59.739		
Geoid Height (M):	-26.041		

Location Description

TO REACH THE STATION FROM THE STATE HIGHWAY 205 AND HIGHWAY 274, NORTH OF HAMPTON AND WEST OF FORDYCE, GO SOUTH ON HIGHWAY 205 0.50 MILES TO THE STATION ON THE RIGHT. 11.30 METERS EAST OF A PRIVATE GRAVEL DRIVE, 16.5 METERS SOUTH OF THE CENTER OF THE HIGHWAY, AND 0.50 NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "070001A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	212	2.90	9.5
MK # 2	WATER METER	136	3.80	12.5
MK # 3	COMBINATION POLE	245	14.60	47.9

AZ Mark Station	070001
Geodetic Azimuth	277 54 40
Grid Azimuth	278 13 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1 (LROC)
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070002	1/22/2003	AHTD	CALHOUN	274	007969, 070435

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	505,232.8348	0.0030
Easting (M)	348,708.2169	0.0020
Elevation (M)*		
Northing (SFT)	1,657,584.7255	
Easting (SFT)	1,144,053.5416	
Elevation (SFT)*		

Convergence Angle	0	18	33.7167630
Scale Factor			0.999945194
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	33	36	51.1528140
Longitude	92	33	9.8790336
Ellipsoid Height (M):	38.693		0.0050
Geoid Height (M):	-26.097		0.0050

Location Description

THE STATION, NORTH WEST OF HAMPTON, IS LOCATED AT THE SOUTH EAST CORNER OF THE JUNCTION OF STATE HIGHWAY 274 AND HIGHWAY 203 SOUTH, 28.0 METERS EAST OF HIGHWAY 203, 9.10 METERS SOUTH OF HIGHWAY 274 AND 6.1 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "070002 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	36	51.1529184
Longitude	92	33	9.8801964
Ellipsoid Height:	38.781		
Grid Northing (Meters)	505,232.8381		
Grid Easting (Meters)	348,708.1870		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH WEST CORNER OF A CEMETERY FENCE	246	15.90	52.2
MK # 2				
MK # 3				

AZ Mark Station	070002A
Geodetic Azimuth	268 37 37
Grid Azimuth	268 56 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1 - AHTD MON1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	Vicksburg CORS

Comments

Level was established using 3-order techniques per PDR from tablet by Thompson Engr. OLD GEOID HT. WAS -26.020m AND WAS UPDATED 12-8-17 WHEN POINT WAS UPDATED TO 2011. PREVIOUS ELEV. WAS 59.6035m.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070002A	1/22/2003	AHTD	CALHOUN	274	007969, 070435

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	505,221.2543	0.0030
Easting (M)	348,084.6121	0.0020
Elevation (M)*		
Northing (SFT)	1,657,546.7318	
Easting (SFT)	1,142,007.5982	
Elevation (SFT)*		

Convergence Angle	0	18	47.2556738
Scale Factor			0.999945211
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	36	50.6670948
Longitude	92	33	34.0699968
Ellipsoid Height:			33.599
Grid Northing (Meters)			505,221.2582
Grid Easting (Meters)			348,084.5870

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	33	36	50.6669724	
Longitude	92	33	34.0690212	
Ellipsoid Height (M):			33.515	0.0060
Geoid Height (M):			-26.100	0.0060

Location Description

TO REACH THE STATION FORM THE JUNCTION OF STATE HIGHWAY 274 AND HIGHWAY 203 SOUTH, NORTHWEST OF HAMPTON, GO WEST ON HIGHWAY 274 0.35 MILES TO THE STATION ON THE RIGHT. 10.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 11.20 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64 mm CAP STAMPED "070002A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	070002
Geodetic Azimuth	88 37 23
Grid Azimuth	88 56 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1 - AHTD MON1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	Vicksburg CORS

Comments

Level was established using 3-order techniques per PDR from tablet by Thompson Engr. OLD GEOID HT. WAS -26.023m AND WAS UPDATED 12-8-17 WHEN POINT WAS UPDATED TO 2011. OLD ELEV. WAS 64.7857m.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070003	7/30/2003	AHTD	CALHOUN	278	070239,070373,070284,07028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	496,625.6462	
Easting (M)	358,285.1550	
Elevation (M)*	60.780	
Northing (SFT)	1,629,345.9742	
Easting (SFT)	1,175,473.8794	
Elevation (SFT)*	199.408	

Convergence Angle	0	15	4.9523244
Scale Factor			0.999955902
Elevation Adjust. Factor			0.9999904618
Combined Adjust. Factor			0.9999463642

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	32	13.2967716	
Longitude	92	26	56.8793688	
Ellipsoid Height (M):	34.539			
Geoid Height (M):	-26.010			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND HIGHWAY 274, EAST OF HAMPTON, THE STATION IS LOCATED SOUTH OF THIS T INTERSECTION. SOUTH 16.3 METERS OF THE CENTERLINE OF HIGHWAY 278 AND NORTH 2.20 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "070003 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	106	6.70	22.0
MK # 2	COMBINATION POLE	98	8.70	28.5
MK # 3				

AZ Mark Station	070003A
Geodetic Azimuth	274 24 56
Grid Azimuth	274 40 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	CSAL C.O.R.S.
Ref Mon # 3	1ULM C.O.R.S.

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070003A	7/30/2003	AHTD	CALHOUN	278	070239,070373,070284,070285

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	496,690.2632	
Easting (M)	357,493.6270	
Elevation (M)*	62.920	
Northing (SFT)	1,629,557.9718	
Easting (SFT)	1,172,877.0079	
Elevation (SFT)*	206.432	

Convergence Angle	0	15	22.1295923
Scale Factor	0.999955819		
Elevation Adjust. Factor	0.9999901258		
Combined Adjust. Factor	0.9999459453		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	32	15.2803644
Longitude	92	27	27.5700132
Ellipsoid Height (M):	36.679		
Geoid Height (M):	-26.014		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND HIGHWAY 274, EAST OF HAMPTON, GO WEST ON HIGHWAY 278 0.45 MILESTO THE STATION ON THE RIGHT. 8.5 METERS NORTH OF THE CENTERLINEAND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "070003A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE W/GUY	53	23.60	77.4
MK # 2				
MK # 3				

AZ Mark Station	070003
Geodetic Azimuth	94 24 39
Grid Azimuth	94 40 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	CSAL C.O.R.S.
Ref Mon # 3	1ULM C.O.R.S.

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070004	10/20/2004	AHTD	CALHOUN	167	070268,070373,070282

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	475,839.8322	
Easting (M)	350,711.5710	
Elevation (M)*	34.407	
Northing (SFT)	1,561,151.1828	
Easting (SFT)	1,150,626.2125	
Elevation (SFT)*	112.884	

Vertical Determined By:	1st Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	20	57.4432044	
Longitude	92	31	46.2615060	
Ellipsoid Height (M):	12.404			
Geoid Height (M):	-26.159			

Convergence Angle	0	17	46.9168116
Scale Factor	0.999989442		
Elevation Adjust. Factor	0.9999946005		
Combined Adjust. Factor	0.9999840425		

Location Description

The station is set near the north end of the highway 167 bridge over the Ouchita river. 9.10 meters southeast of the center of Hwy-167 and 2.45 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "070004 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Northwest corner of bridge	141	2.70	8.9
MK # 2	North end of concrete curb	061	5.20	17.1
MK # 3				

AZ Mark Station	700022
Geodetic Azimuth	214 37 02
Grid Azimuth	214 54 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORS Hope
Ref Mon # 2	1ULM
Ref Mon # 3	UAM AFRC SIS

Comments

3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 113.0616'). Updated elevation derived from NGS 1st Order level run from X 198 & Y 198 and from NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070005	10/20/2004	AHTD	CALHOUN	163	070268,070373,070283

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	480,907.7951
Easting (M)	354,287.6960
Elevation (M)*	32.629
Northing (SFT)	1,577,778.3244
Easting (SFT)	1,162,358.8826
Elevation (SFT)*	107.050

Convergence Angle	0	16	30.0343834
Scale Factor			0.999980270
Elevation Adjust. Factor			0.9999948795
Combined Adjust. Factor			0.9999751496

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	23	42.5205564
Longitude	92	29	28.8955824
Ellipsoid Height (M):	10.653		
Geoid Height (M):	-26.129		

Location Description

To reach the station from the north end of a bridge over the Ouchita river north of Calion go north on Hwy-167 for 4.20 miles to the station on the right. 11.10 meters southeast of the center of Hwy-167 and 11.40 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "070005 2004" set on top of an iron rod 1.22 meters in length and driven flush with the ground.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	070005A
Geodetic Azimuth	032 54 36
Grid Azimuth	033 11 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORS Hope
Ref Mon # 2	1ULM
Ref Mon # 3	UAM AFRC SIS

Comments

3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 107.2423') . Updated elev.derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070005A	10/20/2004	AHTD	CALHOUN	167	070268,070373,070283

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	481,486.7201
Easting (M)	354,666.3170
Elevation (M)*	33.064
Northing (SFT)	1,579,677.6809
Easting (SFT)	1,163,601.0750
Elevation (SFT)*	108.479

Convergence Angle	0	16	21.8940426
Scale Factor			0.999979263
Elevation Adjust. Factor			0.9999948111
Combined Adjust. Factor			0.9999740742

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	24	1.3703868	
Longitude	92	29	14.3512260	
Ellipsoid Height (M):	11.116			
Geoid Height (M):	-26.124			

Location Description

To reach the station from the north end of the bridge over the Ouchita river north of Calion go north on Hwy-167 for 4.60 miles to the station on the left. 14.0 meters from the center of the junction of Hwy-167 and Union county road 30, 7.30 meters northwest of the center of Hwy-167 and 5.40 meters southeast of a witness post. The station mark is a standard 64mm cap stamped "070005A 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fiber optic manhole	088	22.80	74.8
MK # 2				
MK # 3				

AZ Mark Station	070005
Geodetic Azimuth	212 54 44
Grid Azimuth	213 11 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORS Hope
Ref Mon # 2	1ULM
Ref Mon # 3	UAM AFRC SIS

Comments

3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 108.6647'). Updated elev. derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070006	9/20/2005	AHTD	Calhoun	Cr 27	001914,070373,070283,070284

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	486,680.5181	
Easting (M)	355,299.3650	
Elevation (M)*	34.838	
Northing (SFT)	1,596,717.6665	
Easting (SFT)	1,165,678.0000	
Elevation (SFT)*	114.296	

Convergence Angle	0	16	8.7112106
Scale Factor	0.999970619		
Elevation Adjust. Factor	0.9999945329		
Combined Adjust. Factor	0.9999651520		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	26	50.0510148
Longitude	92	28	50.7974448
Ellipsoid Height (M):	8.739		
Geoid Height (M):	-26.086		

Location Description

To reach the station from the Calhoun and Union county line on Hwy-167 north of Calion, go north on Hwy-167 for 7.75 miles to county road 27 on the left, turn left on CR 27 and go 0.35 miles to the station on the right.29.2 feet north of CR27 and 1.65 feet south of a witness post. The statiom mark is a 2 1/2 inch cap stamped "070006 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	208	14.70	48.2
MK # 2				
MK # 3				

AZ Mark Station	070006A
Geodetic Azimuth	119 39 32
Grid Azimuth	119 55 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070006A	9/20/2005	AHTD	Calhoun	167	001914,070373,070283,070284

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	486,409.6582
Easting (M)	355,769.8710
Elevation (M)*	35.199
Northing (SFT)	1,595,829.0203
Easting (SFT)	1,167,221.6518
Elevation (SFT)*	115.481

Convergence Angle	0	15	58.4877069
Scale Factor			0.999971050
Elevation Adjust. Factor			0.9999944762
Combined Adjust. Factor			0.9999655264

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	26	41.3306160
Longitude	92	28	32.5310988
Ellipsoid Height (M):	9.106		
Geoid Height (M):	-26.086		

Location Description

To reach the station from the Calhoun and Union county line on Hwy-167 north of Calion, go north on Hwy-167 for 7.75 miles to the station on the left. 42.3 feet west of Hwy-167, 50.5 feet south of CR27 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070006A 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser box	250	13.90	45.6
MK # 2	Wooden sign "Antioch Bap. Church"	273	13.70	44.9
MK # 3				

AZ Mark Station	070006
Geodetic Azimuth	299 39 42
Grid Azimuth	299 55 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070007	9/20/2005	AHTD	Calhoun	167	001914,070373,070284

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	491,783.8921	
Easting (M)	356,168.7440	
Elevation (M)*	48.459	
Northing (SFT)	1,613,460.9860	
Easting (SFT)	1,168,530.2876	
Elevation (SFT)*	158.985	

Convergence Angle	0	15	50.3806681	
Scale Factor	0.999962768			
Elevation Adjust. Factor	0.9999923953			
Combined Adjust. Factor	0.9999551636			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	29	35.8309032	
Longitude	92	28	18.0462432	
Ellipsoid Height (M):	22.414			
Geoid Height (M):	-26.046			

Location Description

To reach the station from the Calhoun and Union county line north of Calion on Hwy-167, go north on Hwy-167 for 11.3 miles to the station on the left.57.6 feet northwest of the center of Hwy-167, 67.6 feet north of a gravel drive and 1.65 feet southeast of a witness post. The station mark is a 2 1/2 inch cap on top of a 4 foot by 5/8 inch rebar set just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser	284	5.40	17.7
MK # 2	North end of 18 inch RCP	158	13.60	44.6
MK # 3	South end of 18 inch RCP	12	19.20	63.0

AZ Mark Station	070007A
Geodetic Azimuth	178 22 59
Grid Azimuth	178 38 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070007A	9/20/2005	AHTD	Calhoun	167	001914,070373,070284

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	491,222.8621	
Easting (M)	356,181.9940	
Elevation (M)*	47.145	
Northing (SFT)	1,611,620.3401	
Easting (SFT)	1,168,573.7586	
Elevation (SFT)*	154.676	

Convergence Angle	0	15	50.0373476
Scale Factor	0.999963599		
Elevation Adjust. Factor	0.9999926014		
Combined Adjust. Factor	0.9999562007		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	29	17.6226036
Longitude	92	28	17.4328320
Ellipsoid Height (M):	21.072		
Geoid Height (M):	-26.050		

Location Description

To reach the station from the Calhoun and Union county north of Calion on Hwy-167 go north on Hwy-167 for 10.95 miles to the station on the right in front of the "Happy Home Assembly of God church". 60.4 feet southeast of the center of Hwy-167, 43 feet north of a concret drive and 1.65 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "070007A 2005" on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Right of way marker	010	9.75	32.0
MK # 2	Power pole	0	19.40	63.6
MK # 3	24 inch plastic culvert	204	7.30	24.0

AZ Mark Station	070007
Geodetic Azimuth	358 23 00
Grid Azimuth	358 38 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070008	9/20/2005	AHTD	Calhoun	167	001914,070373,070285,070286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	501,480.3021	
Easting (M)	356,435.4370	
Elevation (M)*	66.270	
Northing (SFT)	1,645,273.2911	
Easting (SFT)	1,169,405.2629	
Elevation (SFT)*	217.421	

Convergence Angle	0	15	45.5619200
Scale Factor			0.999949619
Elevation Adjust. Factor			0.9999896002
Combined Adjust. Factor			0.9999392197

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	34	50.6030664	
Longitude	92	28	9.4365804	
Ellipsoid Height (M):	40.262			
Geoid Height (M):	-25.998			

Location Description

To reach the station from the junction of Hwy-167 and Hwy-278 in Hampton go north on Hwy-167 for 3.20 miles to the station on the left.50.3 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070008 2005" set on top of a 4 foot long by 5/8 inch round rebar and is driven just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Mail box	020	33.00	108.3
MK # 2				
MK # 3				

AZ Mark Station	070008A
Geodetic Azimuth	003 23 16
Grid Azimuth	003 39 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070008A	9/20/2005	AHTD	Calhoun	167	001914,070373,070285,070286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	502,200.4642	
Easting (M)	356,481.3810	
Elevation (M)*	67.823	
Northing (SFT)	1,647,636.0230	
Easting (SFT)	1,169,555.9975	
Elevation (SFT)*	222.516	

Convergence Angle	0	15	44.6363134
Scale Factor	0.999948735		
Elevation Adjust. Factor	0.9999893565		
Combined Adjust. Factor	0.9999380920		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	35	13.9853724
Longitude	92	28	7.7827980
Ellipsoid Height (M):	41.834		
Geoid Height (M):	-25.995		

Location Description

To reach the station from the junction of Hwy-167 and 278 in Hampton go north on Hwy-167 for 3.65 miles to the station on the right. 38 feet east of the center of Hwy-167 and 5.90 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070008A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CM	053	11.20	36.7
MK # 2	Center of a box culvert	046	2.80	9.2
MK # 3				

AZ Mark Station	070008
Geodetic Azimuth	183 23 17
Grid Azimuth	183 39 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070009	9/20/2005	AHTD	Calhoun	167	001914,070285,070286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	507,766.7961
Easting (M)	356,593.8870
Elevation (M)*	77.911
Northing (SFT)	1,665,898.2302
Easting (SFT)	1,169,925.1109
Elevation (SFT)*	255.613

Convergence Angle	0	15	42.7464728
Scale Factor			0.999942327
Elevation Adjust. Factor			0.9999877734
Combined Adjust. Factor			0.9999301011

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	38	14.6774184	
Longitude	92	28	4.4062176	
Ellipsoid Height (M):	51.935			
Geoid Height (M):	-25.983			

Location Description

To reach the station from the junction of Hwys 167 and 278 in Hampton go north on Hwy-167 for 6.95 miles to the station on the left.52.5 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070009 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Right of way marker	271	1.80	5.9
MK # 2				
MK # 3				

AZ Mark Station	070009A
Geodetic Azimuth	181 27 01
Grid Azimuth	181 42 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070009A	9/20/2005	AHTD	Calhoun	167	001914,070285,070286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,312.2831	
Easting (M)	356,580.3000	
Elevation (M)*	74.235	
Northing (SFT)	1,664,407.0488	
Easting (SFT)	1,169,880.5343	
Elevation (SFT)*	243.552	

Convergence Angle	0	15	42.9964376
Scale Factor	0.999942822		
Elevation Adjust. Factor	0.9999883503		
Combined Adjust. Factor	0.9999311729		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	37	59.9225592	
Longitude	92	28	4.8528300	
Ellipsoid Height (M):	48.248			
Geoid Height (M):	-25.983			

Location Description

To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 6.65 miles to the station on the left. 51.5 feet from the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070009A 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the grounds surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Concrete right of way marker	271	2.30	7.5
MK # 2				
MK # 3				

AZ Mark Station	070009
Geodetic Azimuth	001 27 01
Grid Azimuth	001 42 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070010	9/20/2005	AHTD	Calhoun	167	001914,070286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	510,729.2552
Easting (M)	356,664.7190
Elevation (M)*	86.470
Northing (SFT)	1,675,617.5648
Easting (SFT)	1,170,157.4989
Elevation (SFT)*	283.694

Convergence Angle	0	15	41.5017707
Scale Factor			0.999939226
Elevation Adjust. Factor			0.9999864302
Combined Adjust. Factor			0.9999256570

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	39	50.8450500
Longitude	92	28	2.1823068
Ellipsoid Height (M):	60.510		
Geoid Height (M):	-25.982		

Location Description

To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 8.70 miles to the station on the left and the Mt. Pleasant Cemetery on the right. 59.4 feet west of the center of Hwy-167 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "070010 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole with a guy wire	180	35.45	116.3
MK # 2				
MK # 3				

AZ Mark Station	070010A
Geodetic Azimuth	008 45 18
Grid Azimuth	009 01 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070010A	9/20/2005	AHTD	Calhoun	167	001914,070286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	511,129.8412	
Easting (M)	356,728.2850	
Elevation (M)*	75.000	
Northing (SFT)	1,676,931.8207	
Easting (SFT)	1,170,366.0484	
Elevation (SFT)*	246.063	

Convergence Angle	0	15	40.1604245
Scale Factor			0.999938823
Elevation Adjust. Factor			0.9999882302
Combined Adjust. Factor			0.9999270539

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	40	3.8568936	
Longitude	92	27	59.7857220	
Ellipsoid Height (M):	49.030			
Geoid Height (M):	-25.982			

Location Description

To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 9.0 miles to the station on the right. 63 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070010A 2005"set on top of a 4 foot long by 5/8 inch rebar and driven to just below the ground surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Highway mile marker #9	304	20.15	66.1
MK # 2				
MK # 3				

AZ Mark Station	070010
Geodetic Azimuth	188 45 20
Grid Azimuth	189 01 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070011	9/20/2005	AHTD	Calhoun	167	001914,070286,070287

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	514,592.8041	
Easting (M)	356,841.4140	
Elevation (M)*	75.893	
Northing (SFT)	1,688,293.2248	
Easting (SFT)	1,170,737.2058	
Elevation (SFT)*	248.993	

Convergence Angle	0	15	38.0446849
Scale Factor			0.999935506
Elevation Adjust. Factor			0.9999880900
Combined Adjust. Factor			0.9999235968

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	41	56.2761924
Longitude	92	27	56.0055276
Ellipsoid Height (M):	49.918		
Geoid Height (M):	-25.985		

Location Description

To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 11.15 miles to the station on the right. 60 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070011 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Right of way marker	007	2.00	6.6
MK # 2	Power service with guy	005	4.90	16.1
MK # 3	Water meter	086	4.65	15.3

AZ Mark Station	070011A
Geodetic Azimuth	345 01 30
Grid Azimuth	345 17 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070011A	9/20/2005	AHTD	Calhoun	167	001914,070286,070287

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	515,262.7142
Easting (M)	356,665.4880
Elevation (M)*	76.668
Northing (SFT)	1,690,491.0882
Easting (SFT)	1,170,160.0219
Elevation (SFT)*	251.535

Convergence Angle	0	15	41.9348443
Scale Factor			0.999934899
Elevation Adjust. Factor			0.9999879684
Combined Adjust. Factor			0.9999228682

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	42	17.9944200
Longitude	92	28	2.9560800
Ellipsoid Height (M):	50.702		
Geoid Height (M):	-25.986		

Location Description

To reach the station from the junction of highways 167 and 278 in Hampton go north 11.60 miles to the station on the right. 50.85 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "070011A 2005" on top of a 4 foot long by 5/8 inch rebar driven to just below the ground surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NR			
MK # 2				
MK # 3				

AZ Mark Station	070011
Geodetic Azimuth	165 01 26
Grid Azimuth	165 17 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070012	9/21/2005	AHTD	Calhoun	167	001914,070286,070287

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	517,993.3881
Easting (M)	356,055.7000
Elevation (M)*	82.593
Northing (SFT)	1,699,449.9741
Easting (SFT)	1,168,159.4091
Elevation (SFT)*	270.974

Convergence Angle	0	15	55.4641743
Scale Factor			0.999932539
Elevation Adjust. Factor			0.9999870386
Combined Adjust. Factor			0.9999195785

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	43	46.5367620
Longitude	92	28	27.1289496
Ellipsoid Height (M):	56.594		
Geoid Height (M):	-25.993		

Location Description

To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 13.4 miles to the station on the left. 32.3 feet southwest of the center of Hwy-167, 20.3 feet south of a gravel drive and 18.0 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070012 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the ground surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	070012A
Geodetic Azimuth	354 13 55
Grid Azimuth	354 29 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070012A	9/21/2005	AHTD	Calhoun	167	001914,070286,070287

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	518,829.0291
Easting (M)	355,975.1980
Elevation (M)*	82.794
Northing (SFT)	1,702,191.5730
Easting (SFT)	1,167,895.2954
Elevation (SFT)*	271.632

Convergence Angle	0	15	57.2987990
Scale Factor			0.999931853
Elevation Adjust. Factor			0.9999870071
Combined Adjust. Factor			0.9999188610

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	44	13.6482036
Longitude	92	28	30.4068756
Ellipsoid Height (M):	56.801		
Geoid Height (M):	-25.995		

Location Description

To reach the station from the junction of highways 167 and 278 in Hampton go north on Hwy-167 for 13.90 miles to the station on the left. 34.12 feet southwest of the center of Hwy-167 and 17.4 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070012A 2005" set on top of a 4 foot long by 5/8 inch rebar and is driven to just below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	070012
Geodetic Azimuth	174 13 53
Grid Azimuth	174 29 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070013	9/21/2005	AHTD	Calhoun	79	001914,070287

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	524,683.1852	
Easting (M)	356,453.7650	
Elevation (M)*	111.417	
Northing (SFT)	1,721,398.0834	
Easting (SFT)	1,169,465.3940	
Elevation (SFT)*	365.540	

Convergence Angle	0	15	47.4774585
Scale Factor	0.999927523		
Elevation Adjust. Factor	0.9999825154		
Combined Adjust. Factor	0.9999100397		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	47	23.7359508
Longitude	92	28	12.8590752
Ellipsoid Height (M):	85.434		
Geoid Height (M):	-26.001		

Location Description

To reach the station from the junction of highways 205 and 79 west of Thornton go north on Hwy-79 for 1.6 miles to the station on the right northeast of the junction of Hwy-79 and 79B. 235.9 feet southeast of the center of Hwy-79 and 1.65 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "070013 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2 inch persimmon tree	299	19.30	63.3
MK # 2	4 inch pine tree	358	26.85	88.1
MK # 3	2 inch twin locust tree	018	15.80	51.8

AZ Mark Station	070013A
Geodetic Azimuth	058 52 42
Grid Azimuth	059 08 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070013A	9/21/2005	AHTD	Calhoun	79	001914,070287

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	524,932.5082	
Easting (M)	356,871.0380	
Elevation (M)*	106.312	
Northing (SFT)	1,722,216.0707	
Easting (SFT)	1,170,834.3972	
Elevation (SFT)*	348.791	

Convergence Angle	0	15	38.4232538
Scale Factor	0.999927356		
Elevation Adjust. Factor	0.9999833165		
Combined Adjust. Factor	0.9999106737		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	47	31.8904548
Longitude	92	27	56.6819172
Ellipsoid Height (M):	80.323		
Geoid Height (M):	-25.999		

Location Description

To reach the station from the junction of highways 205 and 79 west of Thornton go north on Hwy-79 for 1.90 miles to the station on the left. 36.75 feet northwest of the center of Hwy-79, 58.4 feet southeast of the center of the old road bed and 1.65 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "070013A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	070013
Geodetic Azimuth	238 52 51
Grid Azimuth	239 08 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070014	1/26/2010	AHTD	CALHOUN	274	070BR3, 070345

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	506,619.4802
Easting (M)	333,030.7480
Elevation (M)*	41.257
Northing (SFT)	1,662,134.0780
Easting (SFT)	1,092,618.3791
Elevation (SFT)*	135.358
Convergence Angle	0 24 14.3295594
Scale Factor	0.999943738
Elevation Adjust. Factor	0.9999935254
Combined Adjust. Factor	0.9999372638

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 37 32.9932056
Longitude	92 43 18.4523124
Ellipsoid Height (M):	15.147
Geoid Height (M):	-26.113

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 274 AND STATE HIGHWAY 203, IN EAST CAMDEN, GO WEST ON 274 FOR 0.4 MILES TO THE MARK ON THE RIGHT, WEST 32.5 FEET FROM C/L OF EXIT ROAD FROM SAU TECH, 3.8 FEET WEST FROM END OF A SIDEWALK AND EAST 1.1 FEET FROM THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "070014 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CABLE MARKER	302	10.64	34.9
MK # 2				
MK # 3				

AZ Mark Station	070014A
Geodetic Azimuth	62 43 08
Grid Azimuth	63 07 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, CSAL
Ref Mon # 2	S 197
Ref Mon # 3	SHRV

Comments

Digital Levels were ran by crew s5105 in March 2010 from NGS mark R 197 in job 070345.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070014A	1/26/2010	AHTD	CALHOUN	274	070BR3, 070345

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	506,907.9492	
Easting (M)	333,599.9170	
Elevation (M)*	40.895	
Northing (SFT)	1,663,080.4967	
Easting (SFT)	1,094,485.7277	
Elevation (SFT)*	134.168	

Convergence Angle	0	24	2.0134691
Scale Factor	0.999943413		
Elevation Adjust. Factor	0.9999935824		
Combined Adjust. Factor	0.9999369957		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	42.4860744
Longitude	92	42	56.4471396
Ellipsoid Height (M):	14.794		
Geoid Height (M):	-26.109		

Location Description

THE STATION, IN EAST CAMDEN, IS LOCATED SOUTH OF THE JUNCTION OF STATE HIGHWAY 274 & 203, 28.5 FEET SOUTH OF HIGHWAY 274. THE STATION MARK IS A 2 1\2 INCH CAP STAMPED "070014A 2010" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFICE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HIDRANT	73	24.45	80.2
MK # 2	SEWER MAN HOLE	323	23.23	76.2
MK # 3				

AZ Mark Station	070014
Geodetic Azimuth	242 43 20
Grid Azimuth	243 07 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197, ARLR
Ref Mon # 2	CSAL
Ref Mon # 3	SHRV

Comments

Digital Levels were ran by crew s5105 in March 2010 from NGS mark R 197 in job 070345.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070015	3/28/2017	AHTD	CALHOUN	172	070379

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	487,122.0904	0.0020
Easting (M)	359,987.3587	0.0020
Elevation (M)*		
Northing (SFT)	1,598,166.3916	
Easting (SFT)	1,181,058.5260	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	27	5.0610492	
Longitude	92	25	49.3536396	
Ellipsoid Height (M):	14.354			0.0140
Geoid Height (M):	-26.155			0.0140

Convergence Angle	0	14	27.1588027
Scale Factor	0.999969882		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM STATE HIGHWAY 167 AND STATE HIGHWAY 172, SOUTHEAST OF HAMPTON, GO EAST ON HIGHWAY 172 FOR 2.5 MILES TO THE MARK ON THE LEFT, 24' NORTH OF THE CENTERLINE OF THE HIGHWAY, 32.1' SOUTHEAST OF THE CENTER OF A GATE AND 20' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 070015" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF 36" CMP	272	21.95	72.0
MK # 2				
MK # 3				

AZ Mark Station	070015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARMO, LTEC

Comments

INCLUDED 1ST ORDER BM X 196 IN STATIC OBSERVATIONS AND CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR & ARCM IN INITIAL NETWORK ADJUSTMENT AND MISSED X 196 PUBLISHED ELEV. BY +0.0032'. CONSTRAINED ARLR, ARCM & X 196 IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070015A	3/28/2017	AHTD	CALHOUN	172	070379

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	487,090.2957	0.0020
Easting (M)	360,361.4807	0.0020
Elevation (M)*		
Northing (SFT)	1,598,062.0785	
Easting (SFT)	1,182,285.9579	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	27	4.0798476	
Longitude	92	25	34.8620772	
Ellipsoid Height (M):	12.844	0.0140		
Geoid Height (M):	-26.154	0.0140		

Convergence Angle	0	14	19.0480102
Scale Factor	0.999969930		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM STATE HIGHWAY 167 AND STATE HIGHWAY 172, SOUTHEAST OF HAMPTON, GO EAST ON HIGHWAY 172 FOR 2.75 MILES TO THE MARK ON THE LEFT, 24.4' NORTH OF THE CENTERLINE OF THE HIGHWAY, 121' EAST OF THE C/L OF A DRIVEWAY AND 20' SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 070015A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	070015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARMO, LTEC

Comments

INCLUDED 1ST ORDER BM X 196 IN STATIC OBSERVATIONS AND CONSTRAINED ORTHOMETRIC HTS. ON CORS SITES ARLR & ARCM IN INITIAL NETWORK ADJUSTMENT AND MISSED X 196 PUBLISHED ELEV. BY +0.0032'. CONSTRAINED ARLR, ARCM & X 196 IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070016	11/16/2017	AHTD	CALHOUN	CR 90	070435

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	504,709.8375	0.0030
Easting (M)	354,710.2294	0.0020
Elevation (M)*	66.762	

Northing (SFT)	1,655,868.8585	
Easting (SFT)	1,163,745.1443	
Elevation (SFT)*	219.034	

Convergence Angle	0	16	23.3408943
Scale Factor	0.999945762		
Elevation Adjust. Factor	0.9999895230		
Combined Adjust. Factor	0.9999352856		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12B		
Latitude	33	36	35.1674352
Longitude	92	29	16.9363176
Ellipsoid Height (M):	40.686		
Geoid Height (M):	-26.076		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND 274, NORTH OF HAMPTON, GO WEST ON HIGHWAY 274 1.1 MILES TO COUNTY ROAD 90 AND TURN LEFT (SOUTH) AND GO 0.15 MILES TO THE MARK ON THE RIGHT, WEST 12' OF THE C/L OF THE ROAD AND WEST 28.6' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER CONCRETE SLAB	321	7.01	23.0
MK # 2				
MK # 3				

AZ Mark Station	070016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARMO

Comments

ELEV. BASED ON DIGITAL LEVELS FROM TBM #914 FROM JOB #070286 BY S5112 IN NOV. 2017 FOR JOB #070435. CREW ALSO RAN THROUGH T-POINT 34 FROM JOB #070285 AND T-POINTS 35 & 36 FROM JOB #070286 TO VERIFY TBM #914 WAS STILL GOOD. THERE IS NO ELEV. DIFFERENCE B/C LEVELED ELEV. WAS USED AS CONSTRAINT IN STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070016A	11/16/2017	AHTD	CALHOUN	CR 90	070435

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	505,075.4302	0.0030
Easting (M)	354,716.3666	0.0020
Elevation (M)*	68.949	

Northing (SFT)	1,657,068.3072	
Easting (SFT)	1,163,765.2794	
Elevation (SFT)*	226.209	

Convergence Angle	0	16	23.2454834
Scale Factor			0.999945340
Elevation Adjust. Factor			0.9999891798
Combined Adjust. Factor			0.9999345204

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12B		
Latitude	33	36	47.0350044
Longitude	92	29	16.7658468
Ellipsoid Height (M):	42.874		
Geoid Height (M):	-26.075		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND 274, NORTH OF HAMPTON, GO WEST ON HIGHWAY 274 1.1 MILES TO COUNTY ROAD 90 AND TURN RIGHT (NORTH) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, EAST 10.9' OF THE C/L OF THE ROAD AND WEST 9.3' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	9	18.44	60.5
MK # 2				
MK # 3				

AZ Mark Station	070016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARMO

Comments

ELEV. BASED ON DIGITAL LEVELS FROM TBM #914 FROM JOB #070286 BY S5112 IN NOV. 2017 FOR JOB #070435. CREW ALSO RAN THROUGH T-POINT 34 FROM JOB #070285 AND T-POINTS 35 & 36 FROM JOB #070286 TO VERIFY TBM #914 WAS STILL GOOD. THERE IS NO ELEV. DIFFERENCE B/C LEVELED ELEV. WAS USED AS CONSTRAINT IN STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070017	11/27/2018	AHTD	CALHOUN	203	070510

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	509,181.6881	0.0020
Easting (M)	335,736.5121	0.0020
Elevation (M)*		
Northing (SFT)	1,670,540.2550	
Easting (SFT)	1,101,495.5401	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	38	56.7645036	
Longitude	92	41	34.1429136	
Ellipsoid Height (M):	16.880			0.0060
Geoid Height (M):	-26.188			0.0060

Convergence Angle	0	23	15.9485604
Scale Factor	0.999940943		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-205 AND SR-203 NE OF E CAMDEN, GO S ON SR-203 0.5 MILES TO STATION ON RIGHT. 31.5' S OF THE C/L SR-203. 45' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "070017 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	070017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARMO, ARGS

Comments

STATIC GPS DERIVED ELEVATION BASED ON SIMULTANEOUS OBSERVATIONS & ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARHP & ARMO AND ON 1ST ORDER NGS BM's S 197 & MOLLETTE IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
070017A	11/27/2018	AHTD	CALHOUN	203	070510

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	509,337.7373	0.0020
Easting (M)	336,212.2627	0.0020
Elevation (M)*		

Northing (SFT)	1,671,052.2265	
Easting (SFT)	1,103,056.3985	
Elevation (SFT)*		

Convergence Angle	0	23	5.6372620
Scale Factor	0.999940776		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	39	1.9336968
Longitude	92	41	15.7197048
Ellipsoid Height (M):	16.888		0.0060
Geoid Height (M):	-26.183		0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-205 AND SR-203 NE OF E CAMDEN, GO S ON SR-203 0.8 MILES TO STATION ON RIGHT. 26.0' S OF THE C/L SR-203. 61' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "070017A 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PP	301	18.00	59.1
MK # 2				
MK # 3				

AZ Mark Station	070017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARMO, ARGS

Comments

STATIC GPS DERIVED ELEVATION BASED ON SIMULTANEOUS OBSERVATIONS & ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARHP & ARMO AND ON 1ST ORDER NGS BM's S 197 & MOLLETTE IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080001	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	219,989.7941	
Easting (M)	248,046.4420	
Elevation (M)*		
Northing (SFT)	721,749.8495	
Easting (SFT)	813,799.0351	
Elevation (SFT)*		

Convergence Angle	0	59	4.2376844
Scale Factor	1.000014830		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	18	15.9165828
Longitude	93	41	30.8111280
Ellipsoid Height (M):			
Geoid Height (M):	-28.779		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO NORTHEAST 217 FEET ALONG THE ROAD, THEN WEST AT A RIGHT ANGLE FROM ROAD 100 FEET TO THE STATION LOCATED IN HAL SOUTHERLAND'S PASTURE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080002
Geodetic Azimuth	330 29 08
Grid Azimuth	331 28 12

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080002	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	220,184.4801	
Easting (M)	247,940.6040	
Elevation (M)*		
Northing (SFT)	722,388.5818	
Easting (SFT)	813,451.7983	
Elevation (SFT)*		

Convergence Angle	0	59	6.7838895
Scale Factor	1.000015212		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	18	22.1726880
Longitude	93	41	35.1868092
Ellipsoid Height (M):			
Geoid Height (M):	-28.781		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, G0 NORTHEAST ALONG THE ROAD 525 FEET TO A FIELD ROAD ON THE LEFT, THEN WESTERLY ALONG A FIELD ROAD 520 FEET, THEN NORTH 60 FEET TO THE STATION IN HAL SOUTHERLAND,S FIELD.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080001
Geodetic Azimuth	150 29 05
Grid Azimuth	151 28 12

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080003	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	220,811.7471	
Easting (M)	249,728.4930	
Elevation (M)*		
Northing (SFT)	724,446.5403	
Easting (SFT)	819,317.5641	
Elevation (SFT)*		

Convergence Angle	0	58	25.3380932
Scale Factor	1.000016521		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	18	43.5111552
Longitude	93	40	23.9617560
Ellipsoid Height (M):			
Geoid Height (M):	-28.796		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 1.63 MILES TO A FIELD ROAD ON THE LEFT ON HUGH LIEDTKE'S PROPERTY, THEN NORTHEAST ALONG A FIELD ROAD 426 FEET, THEN EASTERLY 10 FEET TO THE STATION.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080004
Geodetic Azimuth	290 51 31
Grid Azimuth	291 49 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080004	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	220,944.3311	
Easting (M)	249,397.5480	
Elevation (M)*		
Northing (SFT)	724,881.5263	
Easting (SFT)	818,231.7887	
Elevation (SFT)*		

Convergence Angle	0	58	33.1091272
Scale Factor	1.000016775		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	18	47.6291916
Longitude	93	40	37.3163628
Ellipsoid Height (M):			
Geoid Height (M):	-28.796		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 1.63 MILES TO A FIELD ROAD ON THE LEFT ON HUGH LENDKE'S PROPERTY, THEN NORTHEAST ALONG A FIELD ROAD 1710 FEET, THEN EASTERLY 9 FEET TO THE STATION.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080003
Geodetic Azimuth	110 51 23
Grid Azimuth	111 49 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080005	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	221,295.5980
Easting (M)	251,247.6700
Elevation (M)*	
Northing (SFT)	726,033.9744
Easting (SFT)	824,301.7307
Elevation (SFT)*	
Convergence Angle	0 57 50.0972937
Scale Factor	1.000017542
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	19	0.0394032
Longitude	93	39	23.4000576
Ellipsoid Height (M):			
Geoid Height (M):	-28.809		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 2.71 MILES TO A FIELD ROAD ON THE RIGHT, THEN SOUTH SOUTHEAST 570 FEET TO THE STATION.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 12" WHITE OAK	270	27.43	90.0
MK # 2	NBC IN 14" WHITE OAK	180	20.12	66.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080006
Geodetic Azimuth	312 36 16
Grid Azimuth	313 34 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080006	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	221,392.9881
Easting (M)	251,145.2880
Elevation (M)*	
Northing (SFT)	726,353.4951
Easting (SFT)	823,965.8324
Elevation (SFT)*	

Convergence Angle	0	57	52.5234562
Scale Factor	1.000017735		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	19	3.1425996
Longitude	93	39	27.5694444
Ellipsoid Height (M):			
Geoid Height (M):	-28.810		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 2.71 MILES TO A FIELD ROAD ON THE RIGHT, THEN SOUTHERNLY 114 FEET TO STATION.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080005
Geodetic Azimuth	132 36 13
Grid Azimuth	133 34 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080007	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	223,893.6540
Easting (M)	253,441.3710
Elevation (M)*	
Northing (SFT)	734,557.7632
Easting (SFT)	831,498.8980
Elevation (SFT)*	

Convergence Angle	0	56	59.9368377
Scale Factor	1.000022927		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	20	25.5023052
Longitude	93	37	57.1987668
Ellipsoid Height (M):			
Geoid Height (M):	-28.852		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 5.42 MILES TO A FIELD ROAD ON THE RIGHT, THEN 663 FEET ALONG THE NORTH SIDE OF THE FIELD, THEN SOUTHWESTERLY 36 FEET TO THE STATION.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080008
Geodetic Azimuth	131 04 50
Grid Azimuth	132 01 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080007

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080008	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	223,819.6421	
Easting (M)	253,523.4820	
Elevation (M)*		
Northing (SFT)	734,314.9425	
Easting (SFT)	831,768.2905	
Elevation (SFT)*		

Convergence Angle	0	56	57.9925170
Scale Factor	1.000022776		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	20	23.1457056
Longitude	93	37	53.8574304
Ellipsoid Height (M):			
Geoid Height (M):	-28.852		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 5.42 MILES TO A FIELD ROAD ON THE RIGHT, THEN 300 FEET ALONG THE NORTH SIDE OF THE FIELD, THEN SOUTHWESTERLY 42 FEET TO THE STATION.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080007
Geodetic Azimuth	311 04 52
Grid Azimuth	312 01 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080008

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080009	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	224,970.5290	
Easting (M)	256,857.3570	
Elevation (M)*		
Northing (SFT)	738,090.8106	
Easting (SFT)	842,706.1788	
Elevation (SFT)*		

Convergence Angle	0	55	40.6460601
Scale Factor	1.000025295		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	21	2.2493916
Longitude	93	35	40.9367004
Ellipsoid Height (M):			
Geoid Height (M):	-28.882		

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 8.33 MILES TO THE DON DOSS RESIDENCE, THEN NORTH ON A FIELD ROAD NEXT TO THE HOUSE TO THE FIRST NORTH-SOUTH FENCE GATE, THEN NORTH ALONG A FENCE 165 FEET TO THE STATION.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080010
Geodetic Azimuth	111 28 41
Grid Azimuth	112 24 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080009

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080010	8/27/1990	AHTD	CARROLL	221	9647

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	224,896.2191	
Easting (M)	257,037.5930	
Elevation (M)*		
Northing (SFT)	737,847.0122	
Easting (SFT)	843,297.5030	
Elevation (SFT)*		

Convergence Angle	0	55	36.4124199
Scale Factor	1.000025145		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	20	59.9336016	
Longitude	93	35	33.6611436	
Ellipsoid Height (M):				
Geoid Height (M):	-28.882			

Location Description

FROM THE MADISON AND CARROLL COUNTY LINE ON HWY. 221, GO ALONG HWY. 221 8.33 MILES TO THE DON DOSS RESIDENCE, THEN NORTH ON A FIELD ROAD NEXT TO THE HOUSE TO THE SECOND NORTH-SOUTH FENCE GATE, THEN NORTH ALONG A FENCE 72 FEET TO THE STATION.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080009
Geodetic Azimuth	291 28 46
Grid Azimuth	292 24 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	PENSION
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080011	9/13/1990	AHTD	CARROLL	103	R90017

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	199,528.5260	
Easting (M)	273,311.5720	
Elevation (M)*		
Northing (SFT)	654,619.8391	
Easting (SFT)	896,689.7158	
Elevation (SFT)*		

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	7	25.0655592
Longitude	93	24	26.5295664
Ellipsoid Height (M):			
Geoid Height (M):	-28.707		

Convergence Angle	0	49	8.2091369
Scale Factor	0.999980157		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

THE STATION IS 200 FEET NORTH OF THE CARROLL AND NEWTON COUNTY LINE ON THE LEFT SIDE OF HWY. 103, 100 FEET WEST OF A POWER LINE IN A CLEARED PASTURE, 250 FEET WEST OF THE CENTERLINE OF HWY 103 AND 3.75 FEET EAST OF WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080012
Geodetic Azimuth	28 57 50
Grid Azimuth	29 46 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080011 NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080012	9/13/1990	AHTD	CARROLL	103	R90017

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	199,754.3829	
Easting (M)	273,440.8310	
Elevation (M)*		
Northing (SFT)	655,360.8379	
Easting (SFT)	897,113.7930	
Elevation (SFT)*		

Convergence Angle	0	49	5.2765601
Scale Factor	0.999980494		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	7	32.4525108
Longitude	93	24	21.4899012
Ellipsoid Height (M):			
Geoid Height (M):	-28.710		

Location Description

FROM THE CARROLL AND NEWTON COUNTY LINE, GO NORTH 0.15 MILES ALONG HWY. 103 TO THE STATION ON THE LEFT. THE STATION IS 110 FEET LEFT OF THE CENTERLINE OF HWY. 103, 60 FEET NORTH OF A CROSS FENCE AND 3.82 FEET EAST OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" BLACK GUM	10	19.35	63.5
MK # 2	NBC IN 26" WALNUT	133	25.24	82.8
MK # 3	NBC IN POWER POLE	180	15.51	50.9

AZ Mark Station	90080011
Geodetic Azimuth	208 57 53
Grid Azimuth	209 46 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080012 NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080013	9/17/1990	AHTD	CARROLL	103	R90017

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	202,577.5120	
Easting (M)	272,172.8850	
Elevation (M)*		
Northing (SFT)	664,623.0540	
Easting (SFT)	892,953.8735	
Elevation (SFT)*		

Convergence Angle	0	49	35.7278105
Scale Factor	0.999984757		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	9	3.4469028	
Longitude	93	25	13.8207072	
Ellipsoid Height (M):				
Geoid Height (M):	-28.723			

Location Description

THE STATION IS IN A PASTURE ON THE RIGHT SIDE OF HWY. 103, 125 FEET FROM A FIELD ENTRANCE, 120 FEET FROM AN 18" WALNUT AND A 10" MULBERRY GROWING TOGETHER AND 2 FEET WEST OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 18" WALNUT	219	27.07	88.8
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080014
Geodetic Azimuth	11 25 36
Grid Azimuth	12 15 12

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080013 NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080014	9/17/1990	AHTD	CARROLL	103	R90017

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	202,920.2800	
Easting (M)	272,247.3280	
Elevation (M)*		
Northing (SFT)	665,747.6186	
Easting (SFT)	893,198.1086	
Elevation (SFT)*		

Convergence Angle	0	49	34.1101146
Scale Factor	0.999985293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	9	14.6013696
Longitude	93	25	11.0406792
Ellipsoid Height (M):			
Geoid Height (M):	-28.727		

Location Description

THE STATION IS ON THE RIGHT SIDE OF HWY. 103 BETWEEN THE CREEK AND HWY. 103 AND IS 2.6 FEET WEST OF WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	308	29.11	95.5
MK # 2	NBC IN TOP OF FENCE POST	340	23.73	77.9
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90080013
Geodetic Azimuth	191 25 38
Grid Azimuth	192 15 12

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90080014 NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080015	9/18/1990	AHTD	CARROLL	103	90219,R90104,R90017,09063

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,138.6940	0.0003
Easting (M)	273,724.8983	0.0003
Elevation (M)*	401.695	
Northing (SFT)	676,306.6986	
Easting (SFT)	898,045.7705	
Elevation (SFT)*	1,317.894	

Convergence Angle	0	49	0.7848044
Scale Factor			0.999990486
Elevation Adjust. Factor			0.9999369649
Combined Adjust. Factor			0.9999274515

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	10	59.6961048
Longitude	93	24	13.7704284
Ellipsoid Height:			373.744
Grid Northing (Meters)			206,138.7020
Grid Easting (Meters)			273,724.9070

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	10	59.6958398
Longitude	93	24	13.7707700
Ellipsoid Height (M):	373.744		
Geoid Height (M):	-27.951		

Location Description

O REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 103 SOUTH, LOCATED ABOUT 0.42 KM (0.26 MI) NORTH OF OSAGE, GO SOUTH ON STATE HIGHY 103 FOR 0.42 KM (0.26 MI) TO THE OSAGE BAPTIST CHURCH AND THE STATION ON THE LEFT.

UPDATED COORDS WITH JOB 090639 TO 2011

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH IN GUARD RAIL POST	306	10.97	36.0
MK # 2	NORTH END OF CMP	201	28.40	93.2
MK # 3	TELEPHONE BOX	175	39.30	128.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARFY
Ref Mon # 3	AROZ

Comments

DIGITAL LEVELS RAN BY CREW S5101 IN MAY 2023 FROM NGS BM 1335.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080016	9/18/1990	AHTD	CARROLL	103	R90104,R90017,090639

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,512.1537	0.0003
Easting (M)	273,729.9396	0.0003
Elevation (M)*	399.762	
Northing (SFT)	677,531.9576	
Easting (SFT)	898,062.3102	
Elevation (SFT)*	1,311.552	

Convergence Angle	0	49	0.7914090
Scale Factor			0.999991102
Elevation Adjust. Factor			0.9999372682
Combined Adjust. Factor			0.9999283708

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	36	11	11.8267080
Longitude	93	24	13.7790576
Ellipsoid Height:			370.992
Grid Northing (Meters)			206,512.5640
Grid Easting (Meters)			273,730.0220

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	11	11.8133599	
Longitude	93	24	13.7821201	
Ellipsoid Height (M):	370.992			
Geoid Height (M):	-28.772			

Location Description

THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 103 SOUTH, LOCATED ABOUT 0.42 KM (0.26 MI) NORTH OF OSAGE. THE STATION IS LOCATED 46.34 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412 AND 8.735 METERS EAST OF THE CENTER OF STATE HIGHWAY 103. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "90080016" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF THE CENTER OF 3 0.60 METE R CMP	359	36.07	118.3
MK # 2	WEST END OF THE CENTER OF 3 0.60 METE R CMP	332	42.96	141.0
MK # 3				

AZ Mark Station	90080015
Geodetic Azimuth	179 57 21.74310
Grid Azimuth	180 46 22.53279

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARFY
Ref Mon # 3	AROZ

Comments

Old point number 90080016. 3wire elevations were ran from NGS 1335 under Job # R90104 by S5103
UPDATED MAY 2023 DURING JOB 090639 DIGITAL LEVELS FROM NGS 1335

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080017	4/22/1997	AHTD	CARROLL	412	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	214,796.7150	
Easting (M)	281,154.9640	
Elevation (M)*	360.613	
Northing (SFT)	704,712.2225	
Easting (SFT)	922,422.5777	
Elevation (SFT)*	1,183.111	

Convergence Angle	0	46	10.4776828
Scale Factor	1.000005837		
Elevation Adjust. Factor	0.9999434113		
Combined Adjust. Factor	0.9999492479		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	43.9006644
Longitude	93	19	21.0961236
Ellipsoid Height (M):	331.703		
Geoid Height (M):	-28.910		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 WEST FOR 4.43 KM (2.75 MI) TO THE JUNCTION OF COUNTY ROAD 20 AND THE STATION ON THE RIGHT. THE STATION IS 23.50 METERS WEST OF THE CENTER OF COUNTY ROAD 20, 20.60 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 12.70 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 AND 0.60 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080017 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	24	3.20	10.5
MK # 2	EAST POST OF METAL LINE FENCE BRACE	225	12.50	41.0
MK # 3	WOODEN CORNER POST	15	16.88	55.4

AZ Mark Station	080017A
Geodetic Azimuth	223 40 23.62404
Grid Azimuth	224 26 34.03935

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080017A	4/22/1997	AHTD	CARROLL	412	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	214,460.1840	
Easting (M)	280,824.9150	
Elevation (M)*	370.086	
Northing (SFT)	703,608.1203	
Easting (SFT)	921,339.7420	
Elevation (SFT)*	1,214.190	

Convergence Angle	0	46	18.0650961
Scale Factor			1.000005203
Elevation Adjust. Factor			0.9999419248
Combined Adjust. Factor			0.9999471275

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	15	32.8396212	
Longitude	93	19	34.1351760	
Ellipsoid Height (M):	341.182			
Geoid Height (M):	-28.904			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 FOR 4.91 KM (3.05 MI) TO THE STATION ON THE RIGHT. 11.8 METERS NORTHWEST OF THE CENTER OF U.S. 412 AND 0.37 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080017A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	198	34.48	113.1
MK # 2	POWER POLE	9	36.37	119.3
MK # 3	1.016 METER WHITE OAK	206	28.52	93.6

AZ Mark Station	080017
Geodetic Azimuth	43 40 15.91197
Grid Azimuth	44 26 34.03935

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080018		USC&GS	CARROLL	21	R90104,090101

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	200,658.0819	
Easting (M)	260,378.8200	
Elevation (M)*	435.871	
Northing (SFT)	658,325.7237	
Easting (SFT)	854,259.5120	
Elevation (SFT)*	1,430.020	

Convergence Angle	0	54	9.5381716
Scale Factor	0.999981551		
Elevation Adjust. Factor	0.9999316023		
Combined Adjust. Factor	0.9999131546		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	55.4054808
Longitude	93	33	4.3668000
Ellipsoid Height (M):	409.036		
Geoid Height (M):	-28.625		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO SOUTH ON STATE HIGHWAY 21 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.00 METERS NORTH OF THE CENTER OF A PASTURE ENTRANCE, 14.96 METER WEST OF THE CENTER OF STATE HIGHWAY 21, 1.40 METERS SOUTHEAST OF A NGS WITNESS POST AND 0.75 METERS EAST OF A WITNESS POST. THE STATION IS A NGS DISK SET IN TOP A CONCRETE POST STAMPED "MARBLE 1971" SET FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	70	31.07	101.9
MK # 2	WOODEN BRACE POST FOR GATE	185	20.61	67.6
MK # 3	CHERRY TREE	0	23.46	77.0

AZ Mark Station	080018A
Geodetic Azimuth	6 48 08.57126
Grid Azimuth	7 42 18.11589

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

This is the NGS Marble Triangulation Station. 3 wire levels were ran under Job # R90101 from NGS Q145 by S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080018A	4/22/1997	AHTD	CARROLL	21	R90104,090101

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	201,006.4179	
Easting (M)	260,425.9480	
Elevation (M)*	420.519	
Northing (SFT)	659,468.5561	
Easting (SFT)	854,414.1311	
Elevation (SFT)*	1,379.653	

Convergence Angle	0	54	8.5691692	
Scale Factor	0.999982077			
Elevation Adjust. Factor	0.9999340112			
Combined Adjust. Factor	0.9999160894			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	8	6.7296732	
Longitude	93	33	2.7015588	
Ellipsoid Height (M):	391.891			
Geoid Height (M):	-28.628			

Location Description

THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE. THE STATION IS 54.888 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 12.15 METERS EAST OF THE CENTER OF STATE HIGHWAY 21, 5.17 METERS NORTH OF THE CENTER OF THE ENTRANCE TO CAINS REAL ESTATE AND AUCTION COMPANY AND 0.83 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080018 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN BRACE POST FOR GATE	89	0.90	3.0
MK # 2	SOUTH END OF EAST HEADWALL OF DOUB LE BOX	338	35.36	116.0
MK # 3	COMBINATION POLE	171	19.36	63.5

AZ Mark Station	080018=MARBLE TRI
Geodetic Azimuth	186 48 09.5532
Grid Azimuth	187 42 18.11589

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080019	4/22/1997	AHTD	CARROLL	412	R90104,090202,090639

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,865.4207	0.0003
Easting (M)	279,989.8794	0.0003
Elevation (M)*	420.906	
Northing (SFT)	691,814.3011	
Easting (SFT)	918,600.1293	
Elevation (SFT)*	1,380.922	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	13	35.8591692
Longitude	93	20	5.6302800
Ellipsoid Height (M):	392.717		
Geoid Height (M):	-28.113		

Convergence Angle	0	46	36.3920696
Scale Factor	0.999998685		
Elevation Adjust. Factor	0.9999339505		
Combined Adjust. Factor	0.9999326356		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO SOUTHERLY ON U.S. HIGHWAY 412 FOR 8.77 KM (5.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.60 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY, 11.74 METERS EAST OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 080019 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF GARAGE	353	45.08	147.9
MK # 2	NORTHWEST CORNER OF ROCK HOUSE	78	33.25	109.1
MK # 3	WOODEN CORNER POST	170	37.85	124.2

AZ Mark Station	080019A
Geodetic Azimuth	174 01 27.24394
Grid Azimuth	174 48 03.64210

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARFY
Ref Mon # 3	AROZ

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080019A RESET	4/22/1997	ARDOT	CARROLL	412	090639

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,444.3036	0.0003
Easting (M)	280,028.1763	0.0003
Elevation (M)*	414.664	0.0015
Northing (SFT)	690,432.6861	
Easting (SFT)	918,725.7751	
Elevation (SFT)*	1,360.443	

Convergence Angle	0	46	35.3668355
Scale Factor			0.999997946
Elevation Adjust. Factor			0.9999349299
Combined Adjust. Factor			0.9999328761

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	13	22.2298068
Longitude	93	20	3.8644224
Ellipsoid Height:			385.806
Grid Northing (Meters)			210,444.7630
Grid Easting (Meters)			280,028.2820

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	13	22.2148560
Longitude	93	20	3.8684040
Ellipsoid Height (M):	386.425		
Geoid Height (M):	-28.106		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 WEST AND U.S. HIGHWAY 62, LOCATED IN ALPENA, GO WESTERLY ON U.S. HIGHWAY 412 FOR 9.25 KM (5.75 MI) TO THE STATION ON THE LEFT. THE STATION IS 29.30 METERS SOUTH OF THE CENTER OF A PASTURE ENTRANCE, 12.10 METERS EAST OF THE CENTER OF U.S. HIGHWAY 412 AND 1.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080019A 1997" SET ON THE TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	183	14.90	48.9
MK # 2	CENTER WOODEN POST OF FENCE LINE BR AGE	260	25.15	82.5
MK # 3	TELEPHONE JUNCTION BOX	319	33.55	110.1

AZ Mark Station	080019
Geodetic Azimuth	354 01 28.28555
Grid Azimuth	354 48 03.64210

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARFY
Ref Mon # 3	AROZ

Comments

CAP IS STAMPED 080037 POINT NUMBER WAS DUPLICATED WITH 080037 IN JOB 090424 ALONG HWY 23.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080020	12/30/1997	AHTD	CARROLL	21	090197,R90079,090346

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,584.3380	
Easting (M)	259,776.4980	
Elevation (M)*	391.269	
Northing (SFT)	736,823.7823	
Easting (SFT)	852,283.3939	
Elevation (SFT)*	1,283.688	

Convergence Angle	0	54	32.3880676
Scale Factor	1.000024583		
Elevation Adjust. Factor	0.9999386009		
Combined Adjust. Factor	0.9999631824		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	51.2403540
Longitude	93	33	43.6345956
Ellipsoid Height (M):	363.085		
Geoid Height (M):	-28.140		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 21 SOUTH, LOCATED ON THE EAST SIDE OF BERRYVILLE, GO SOUTH ON STATE HIGHWAY 21 FOR 1.29 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 41.836 METERS NORTH OF THE CENTER OF A PAVED PASTURE ENTRANCE, 10.885 METERS EAST OF THE CENTER OF STATE HIGHWAY 21 AND 1.085 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080020 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	167	109.44	359.1
MK # 2	GAS METER	271	79.47	260.7
MK # 3	WOODEN CORNER POST	308	91.69	300.8

AZ Mark Station	080028
Geodetic Azimuth	358 58 53
Grid Azimuth	359 53 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARP2
Ref Mon # 3	ARHR

Comments

Original Elevation (1283.6474') established by 3-wire levels from NGS F157 Reset by S5101 in Job 090197 in Feb 2006. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080021	12/30/1997	AHTD	CARROLL	221	R90079

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	224,841.1540
Easting (M)	256,500.7200
Elevation (M)*	341.307
Northing (SFT)	737,666.3527
Easting (SFT)	841,536.1122
Elevation (SFT)*	1,119.771
Convergence Angle	0 55 48.9187343
Scale Factor	1.000025011
Elevation Adjust. Factor	0.9999464407
Combined Adjust. Factor	0.9999714503

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 20 57.8651892
Longitude	93 35 55.1533812
Ellipsoid Height (M):	313.169
Geoid Height (M):	-28.138

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 221 (WEST CARL STREET), LOCATED IN BERRYVILLE, GO WEST ON STATE HIGHWAY 221 (WEST CARL STREET) FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HUNTSVILLE STREET, GO LEFT AND SOUTH THEN WEST ON STATE HIGHWAY 221 (HUNTSVILLE STREET) FOR 0.89 KM (0.55 MI) TO A T-JUNCTION WITH MCKENNON AVENUE ON THE RIGHT AND STATE HIGHWAY 221 ON THE LEFT, GO LEFT AND SOUTH ON STATE HIGHWAY 221 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.447 METERS NORTH OF THE CENTER OF STATE HIGHWAY 221 AND 1.280 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080021 1997" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST IN-LINE WOODEN FENCE POST	80	18.26	59.9
MK # 2	GUY POLE	133	31.04	101.8
MK # 3	GUY POLE	258	61.31	201.2

AZ Mark Station	080021A
Geodetic Azimuth	93 58 03.13868
Grid Azimuth	94 53 52.12979

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	TA-05
Ref Mon # 3	ARP2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080021A	12/30/1997	AHTD	CARROLL	221	R90079

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,812.5711	
Easting (M)	256,834.2830	
Elevation (M)*	334.397	
Northing (SFT)	737,572.5770	
Easting (SFT)	842,630.4768	
Elevation (SFT)*	1,097.101	

Convergence Angle	0	55	41.1247575
Scale Factor	1.000024962		
Elevation Adjust. Factor	0.9999475250		
Combined Adjust. Factor	0.9999724857		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	20	57.1135164	
Longitude	93	35	41.7593472	
Ellipsoid Height (M):	306.259			
Geoid Height (M):	-28.138			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 STATE HIGHWAY 221 (WEST CARL STREET), LOCATED IN BERRYVILLE, GO WEST ON STATE HIGHWAY 221 (WEST CARL STREET) FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HUNTSVILLE STREET, GO LEFT AND SOUTH THEN WEST ON STATE HIGHWAY 221 (HUNTSVILLE STREET) FOR 0.89 KM (0.55 MI) TO A T-JUNCTION WITH MCKENNON AVENUE ON THE RIGHT AND STATE HIGHWAY 221ON THE LEFT, GO LEFT AND SOUTH ON STATE HIGHWAY 221 FOR 3.22 KM (2.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 221 AND 0.67 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080021A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	89	32.62	107.0
MK # 2	POWER POLE	265	26.96	88.4
MK # 3	WOODEN CORNER POST	313	37.27	122.3

AZ Mark Station	080021
Geodetic Azimuth	273 58 11.07741
Grid Azimuth	274 53 52.12979

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	TA-05
Ref Mon # 3	ARP2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080022	11/29/1999	AHTD	CARROLL	23	009830

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	236,139.1021	
Easting (M)	243,575.2160	
Elevation (M)*		
Northing (SFT)	774,733.0375	
Easting (SFT)	799,129.6878	
Elevation (SFT)*		

Convergence Angle	-1	0	55.1794988
Scale Factor	1.000049817		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	26	57.2106732
Longitude	93	44	41.4658464
Ellipsoid Height (M):	305.342		
Geoid Height (M):	-28.220		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 187, LOCATED ABOUT 3.21 KM (2.00 MI) NORTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.08 KM (0.05 MI) TO THE ENTRANCE TO A CEMETERY AND THE STATION ON THE LEFT. THE STATION IS 78.46 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 23 AND 0.48 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080022 1999" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE	148	24.44	80.2
MK # 2	PIPE CORNER POST	100	14.70	48.2
MK # 3	WOODEN CORNER POST	290	5.97	19.6

AZ Mark Station	080022A
Geodetic Azimuth	340 16 52.53077
Grid Azimuth	341 17 47.58465

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALLISAW 1 CORS ARP
Ref Mon # 2	NEODSHA CORS ARP
Ref Mon # 3	CONWAY CORS ARP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080022A	11/29/1999	AHTD	CARROLL	187	009830

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	237,570.3772
Easting (M)	243,090.6600
Elevation (M)*	
Northing (SFT)	779,428.8125
Easting (SFT)	797,539.9404
Elevation (SFT)*	
Convergence Angle	-1 1 7.0942773
Scale Factor	1.000053224
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 27 43.3553112
Longitude	93 45 1.9415232
Ellipsoid Height (M):	269.512
Geoid Height (M):	-28.239

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 187, LOCATED ABOUT 3.21 KM (2.00 MI) NORTH OF EUREKA SPRINGS, GO WEST ON STATE HIGHWAY 187 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.60 METERS NORTHWEST OF THE CENTER OF A PASTURE ENTRANCE, 5.75 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 187 AND 1.08 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080022A 1999" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN GATE POST	162	6.35	20.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	080022
Geodetic Azimuth	160 16 40.36412
Grid Azimuth	161 17 47.58465

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALLISAW 1 CORS ARP
Ref Mon # 2	NEODSHA CORS ARP
Ref Mon # 3	CONWAY CORS ARP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080023	2/8/2001	AHTD	CARROLL	187	090100

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	239,080.1375
Easting (M)	241,116.0194
Elevation (M)*	
Northing (SFT)	784,382.0844
Easting (SFT)	791,061.4736
Elevation (SFT)*	

Convergence Angle	-1	1	53.8685028
Scale Factor	1.000056808		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	28	31.1781720
Longitude	93	46	22.3235400
Ellipsoid Height (M):	276.827		
Geoid Height (M):	-28.259		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFICE AT BEAVER, ARKANSAS GO NORTHWEST ON STATE HIGHWAY 187 (MAIN STREET) FOR .322 KM (0.2MI) TO THE STATION ON THE LEFT. THE STATION IS 32.65 METERS WEST OF THE CENTER OF FEATHER CREEK DRIVE, 7.82 METERS SOUTH OF THE CENTER OF HIGHWAY 187, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080023 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 666.662 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	343	15.35	50.4
MK # 2	POWER POLE	77	31.85	104.5
MK # 3	NONE			

AZ Mark Station	080023A
Geodetic Azimuth	21 46 17.034115
Grid Azimuth	22 48 10.965211

Area Reference Monuments (used for Processing)

Ref Mon # 1	TA-05
Ref Mon # 2	CASSPORT
Ref Mon # 3	080020

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080023A	2/8/2001	AHTD	CARROLL	187	090100

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	239,694.7124
Easting (M)	241,374.4014
Elevation (M)*	
Northing (SFT)	786,398.4023
Easting (SFT)	791,909.1819
Elevation (SFT)*	

Convergence Angle	-1	1	48.0884247
Scale Factor			1.000058329
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	28	51.2625180
Longitude	93	46	12.3904128
Ellipsoid Height (M):	321.095		
Geoid Height (M):	-28.268		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE AT BEAVER, ARKANSAS GO SOUTHEAST ON HWY. 187 (MAIN STREET) FOR 0.161KM (0.1MI),TO A ONE LANE BRIDGE CROSSING WHITE RIVER THENCE CONTINUE ON HWY. 187 FOR 1.287KM (0.8MI) TO COUNTY ROAD 254 LEFT (WOODSDALE DR.) LEADING TO HOLIDAY ISLAND, THENCE LEFT ON SAID ROAD FOR 1.448KM (0.9MI) TO STATELINE DR. TO THE RIGHT AND A THREE WAY STOP, CONTINUE ON WOODSDALE DR. FOR 1.207KM (0.75MI) CROSSING LEATHERWOOD CREEK BRIDGE TO THE ISLAND AND SHIELD'S DR. TO THE LEFT, THENCE LEFT ON SHIELD'S DR. TO FOR 1.127KM (0.7MI) TO APPALOOSA DR. TO THE LEFT. THENCE LEFT ON APPALOOSA DR. FOR .885KM (0.55MI) TO A SHARP TURN TO THE LEFT AND AN OVERLOOK ON THE RIGHT. THE STATION IS ON THE RIGHT, AND SOUTH SIDE OF THE OVERLOOK. THE STATION IS 17.25 METERS SOUTH OF APPALOOSA DR., AND 4.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080023A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 666.662 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	320	17.10	56.1
MK # 2	PROPERTY PIN STAMPED RLS 1302	105	6.35	20.8
MK # 3	NONE			

AZ Mark Station	080023
Geodetic Azimuth	201 46 22.93952
Grid Azimuth	202 48 10.96521

Area Reference Monuments (used for Processing)

Ref Mon # 1	TA-05
Ref Mon # 2	CASSPORT
Ref Mon # 3	080020

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080024	12/16/2002	AHTD	CARROLL	62	090149

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	225,424.8661	
Easting (M)	260,650.3870	
Elevation (M)*		
Northing (SFT)	739,581.4149	
Easting (SFT)	855,150.4780	
Elevation (SFT)*		

Convergence Angle	0	54	12.3068211
Scale Factor	1.000026383		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	21	18.9534672
Longitude	93	33	9.1247544
Ellipsoid Height (M):	354.853		
Geoid Height (M):	-28.143		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 21 SOUTH AND U.S. HIGHWAY 62 ON THE EAST SIDE OF BERRYVILLE, GO EAST ON U.S. HIGHWAY 62 FOR 0.61 MILES TO THE STATION ON THE LEFT. THE STATION IS 34.00 METERS WEST OF THE CENTER OF CARTER STREET, 16.15 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 62, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080024 2002" SET ON TOP OF AN IRON ROD 0.37 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	109	27.15	89.1
MK # 2	CORRRIGATED METAL PIPE	122	29.90	98.1
MK # 3				

AZ Mark Station	080024A
Geodetic Azimuth	118 44 16
Grid Azimuth	119 38 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	NDS1, OKMU
Ref Mon # 2	CNWM
Ref Mon # 3	AHTD HAR1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080024A	12/16/2002	AHTD	CARROLL	62	090149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	225,178.4141
Easting (M)	261,083.5260
Elevation (M)*	
Northing (SFT)	738,772.8469
Easting (SFT)	856,571.5349
Elevation (SFT)*	

Convergence Angle	0	54	2.1089730
Scale Factor			1.000025876
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	21	11.1803544
Longitude	93	32	51.5996412
Ellipsoid Height (M):	350.687		
Geoid Height (M):	-28.141		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 21 SOUTH AND U.S. HIGHWAY 62 ON THE EAST SIDE OF BERRYVILLE, GO EAST ON U.S. HIGHWAY 62 FOR 0.92 MILES TO THE STATION ON THE RIGHT ON TOP OF A HIGH BANK. THE STATION IS 21.45 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62 AND 2.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080024A 2002" SET ON TOP OF AN IRON ROD 0.41 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	113	13.10	43.0
MK # 2				
MK # 3				

AZ Mark Station	080024
Geodetic Azimuth	298 44 27
Grid Azimuth	299 38 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	NDS1, OKMU
Ref Mon # 2	CNWM
Ref Mon # 3	AHTD HAR1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080025	12/16/2002	AHTD	CARROLL	62	090149,090330

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,744.1221	
Easting (M)	264,969.6180	
Elevation (M)*	429.420	
Northing (SFT)	737,348.0073	
Easting (SFT)	869,321.1551	
Elevation (SFT)*	1,408.855	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	20	59.0466588	
Longitude	93	30	15.4965132	
Ellipsoid Height (M):	401.510			
Geoid Height (M):	-28.139			

Convergence Angle	0	52	31.2726989	
Scale Factor	1.000025088			
Elevation Adjust. Factor	0.9999326146			
Combined Adjust. Factor	0.9999577009			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 21 SOUTH AND U.S. HIGHWAY 62 ON THE EAST SIDE OF BERRYVILLE, GO EAST ON U.S. HIGHWAY 62 FOR 3.47 MILES TO THE STATION ON THE RIGHT IN FRONT OF THE MIDWAY FULL GOSPEL CHURCH. THE STATION IS 18.30 METERS NORTH OF THE CENTER OF THE CHURCH DRIVE, 16.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 62, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080025 2002" SET ON TOP OF AN IRON ROD 0.46 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CORRIGATED METAL PIPE	138	15.50	50.9
MK # 2	EAST POST OF CHURCH SIGN	216	4.12	13.5
MK # 3				

AZ Mark Station	080025A
Geodetic Azimuth	150 11 46
Grid Azimuth	151 04 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	NDS1, OKMU
Ref Mon # 2	CNWM
Ref Mon # 3	AHTD HAR1

Comments

ELEV. WAS EST. FROM GPS PN: 080030 DURING JOB 090330 BY CREW S5101. PN: 080030 WAS EST. FROM NGS BM Q 158 RESET DURING JOB 009702.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080025A	12/16/2002	AHTD	CARROLL	62	090149,090330

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,026.5081	
Easting (M)	265,366.2300	
Elevation (M)*	421.942	
Northing (SFT)	734,993.6353	
Easting (SFT)	870,622.3729	
Elevation (SFT)*	1,384.321	

Convergence Angle	0	52	21.7631263
Scale Factor	1.000023598		
Elevation Adjust. Factor	0.9999337880		
Combined Adjust. Factor	0.9999573844		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	35.9649888
Longitude	93	29	59.1542088
Ellipsoid Height (M):	394.044		
Geoid Height (M):	-28.134		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 21 SOUTH AND U.S. HIGHWAY 62 ON THE EAST SIDE OF BERRYVILLE, GO EAST ON U.S. HIGHWAY 62 FOR 3.98 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.62 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 62, 12.70 METERS SOUTHEAST OF THE CENTER OF A DRIVEWAY, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "80025A 2002" SET ON TOP OF AN IRON ROD 0.59 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	229	7.95	26.1
MK # 2	CROSS TIE CORNER POST	273	11.50	37.7
MK # 3	SOUTHEAST END CORRIGATED METAL PIP E	324	10.85	35.6

AZ Mark Station	080025
Geodetic Azimuth	330 11 55
Grid Azimuth	331 04 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	NDS1, OKMU
Ref Mon # 2	CNWM
Ref Mon # 3	AHTD HAR1

Comments

ELEV. WAS EST. FROM GPS PN: 080030 DURING JOB 090330 BY CREW S5101. PN: 080030 WAS EST. FROM NGS BM Q 158 RESET DURING JOB 009702.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080026	1/14/2003	AHTD	CARROLL	23	090167,090073,090424

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	220,686.5631	0.0030
Easting (M)	241,811.9076	0.0030
Elevation (M)*	491.973	
Northing (SFT)	724,035.8324	
Easting (SFT)	793,344.5669	
Elevation (SFT)*	1,614.081	

Convergence Angle	-1	1	29.9152478
Scale Factor	1.000015996		
Elevation Adjust. Factor	0.9999227994		
Combined Adjust. Factor	0.9999387942		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	36	18	34.9711560
Longitude	93	45	41.1596100
Ellipsoid Height (M):	463.865	0.0040	
Geoid Height (M):	-28.088	0.0040	

Location Description

TO REACH THE STATION FROM THE MADISON / CARROLL COUNTY LINE LOCATED SOUTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 23 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080026 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END CONCRETE HEAD WALL	175	31.00	101.7
MK # 2				
MK # 3				

AZ Mark Station	080037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

SEE STATION 080026OLD_DATUMS FOR PREVIOUS TWO DATUMS NAD 83 (1986 &
1997) ELEV.
FROM DIGITAL LEVELS BY S5112 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 2ND ORDER NGS BM Y 51.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080026A	1/14/2003	AHTD	CARROLL	23	090167,090073

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	220,259.0401	
Easting (M)	241,822.7280	
Elevation (M)*	494.859	
Northing (SFT)	722,633.2007	
Easting (SFT)	793,380.0668	
Elevation (SFT)*	1,623.550	

Convergence Angle	-1	1	29.4845431
Scale Factor			1.000015147
Elevation Adjust. Factor			0.9999223465
Combined Adjust. Factor			0.9999374924

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	18	21.1098708
Longitude	93	45	40.4192592
Ellipsoid Height:			466.826
Grid Northing (Meters)			220,259.0406
Grid Easting (Meters)			241,822.7325

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	21.1098492
Longitude	93	45	40.4194392
Ellipsoid Height (M):	466.826		
Geoid Height (M):	-28.033		

Location Description

TO REACH THE STATION FROM THE MADISON / CARROLL COUNTY LINE LOCATED SOUTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 23 AND 0.57 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080026A 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	175	9.40	30.8
MK # 2	POWER POLE	61	10.60	34.8
MK # 3				

AZ Mark Station	080026
Geodetic Azimuth	357 31 22
Grid Azimuth	358 32 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1, Russport
Ref Mon # 2	Moscogee CORS, Conway Mo.
Ref Mon # 3	Salisaw CORS

Comments

ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0026OLD DATUM	1/14/2003	AHTD	CARROLL	23	090167,090073

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	220,686.5571	
Easting (M)	241,811.8890	
Elevation (M)*	491.973	
Northing (SFT)	724,035.8128	
Easting (SFT)	793,344.5058	
Elevation (SFT)*	1,614.080	

Convergence Angle	-1	1	29.9156794
Scale Factor			1.000015996
Elevation Adjust. Factor			0.9999227994
Combined Adjust. Factor			0.9999387942

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	18	34.9713108
Longitude	93	45	41.1600312
Ellipsoid Height:			463.936
Grid Northing (Meters)			220,686.5680
Grid Easting (Meters)			241,811.8972

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	18	34.9709508	
Longitude	93	45	41.1603516	
Ellipsoid Height (M):	463.936			
Geoid Height (M):	-28.037			

Location Description

TO REACH THE STATION FROM THE MADISON / CARROLL COUNTY LINE LOCATED SOUTH OF EUREKA SPRINGS, GO NORTH ON STATE HIGHWAY 23 FOR 0.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 23 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080026 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END CONCRETE HEAD WALL	175	31.00	101.7
MK # 2				
MK # 3				

AZ Mark Station	080026A
Geodetic Azimuth	177 31 22
Grid Azimuth	178 32 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1, Russport
Ref Mon # 2	Moscogee CORS, Conway Mo.
Ref Mon # 3	Salisaw CORS

Comments

ELEVATION BY 3-WIRE FROM NGS POINT Y 51 BY S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080027	5/13/2003	AHTD	CARROLL	62	9932

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	235,296.9091
Easting (M)	239,534.7550
Elevation (M)*	
Northing (SFT)	771,969.9426
Easting (SFT)	785,873.6087
Elevation (SFT)*	

Convergence Angle	-1	2	29.2147878
Scale Factor			1.000047653
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	26	27.5414856
Longitude	93	47	23.0665164
Ellipsoid Height (M):	412.987		
Geoid Height (M):	-28.199		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 187 AND U.S. HIGHWAY 62 WEST OF EUREKA SPRINGS, GO WEST ON U.S. HIGHWAY 62 FOR 0.99 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS EAST OF THE CENTER OF A CONCRETE DRIVE, 12.50 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 1.18 METERS NORTH OF THE NORTH EDGE OF AN ASHPHALT PARKING LOT, AND 1.90 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080027 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	70	11.50	37.7
MK # 2	TELEPHONE JUNCTION bOX	278	29.00	95.1
MK # 3				

AZ Mark Station	080027A
Geodetic Azimuth	294 20 26
Grid Azimuth	295 22 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY, MO
Ref Mon # 2	NEODESHA, KS
Ref Mon # 3	MUSKOGEE,OK V-26

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080027A	5/13/2003	AHTD	CARROLL	62	9932

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	235,544.4751
Easting (M)	239,012.9570
Elevation (M)*	
Northing (SFT)	772,782.1654
Easting (SFT)	784,161.6764
Elevation (SFT)*	

Convergence Angle	-1	2	41.5091905
Scale Factor	1.000048214		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	26	35.2631400
Longitude	93	47	44.1945816
Ellipsoid Height (M):	407.764		
Geoid Height (M):	-28.201		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 187 AND U.S. HIGHWAY 62 WEST OF EUREKA SPRINGS, GO WEST ON U.S. HIGHWAY 62 FOR 1.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.85 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 1.70 METERS NORTH OF A CHAIN LINK FENCE, AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "080027A 2003" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CHAIN LINK CORNER POST	289	6.80	22.3
MK # 2	POWER POLE	113	30.45	99.9
MK # 3				

AZ Mark Station	080027
Geodetic Azimuth	114 20 13
Grid Azimuth	115 22 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY, MO
Ref Mon # 2	NEODESHA, KS
Ref Mon # 3	MUSKOGEE,OK V-26

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080028	12/3/2004	AHTD	CARROLL	21	090197,090346

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	225,037.2550	
Easting (M)	259,775.6310	
Elevation (M)*	386.223	
Northing (SFT)	738,309.7274	
Easting (SFT)	852,280.5494	
Elevation (SFT)*	1,267.133	

Convergence Angle	0	54	32.5759807
Scale Factor	1.000025534		
Elevation Adjust. Factor	0.9999393927		
Combined Adjust. Factor	0.9999649252		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	5.9314572
Longitude	93	33	43.9575264
Ellipsoid Height (M):	358.039		
Geoid Height (M):	-28.140		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 21, SOUTH OF BERRYVILLE, GO SOUTH ON HIGHWAY 21 FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT, 20.20 METERS NORTH OF BEDFALLS DRIVE, WEST 9.60 METERS OF THE CENTERLINE OF HIGHWAY 21 AND EAST 1.22 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080028 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATON POLE	208	11.00	36.1
MK # 2	GAS METER	353	32.50	106.6
MK # 3				

AZ Mark Station	080020
Geodetic Azimuth	178 58 52
Grid Azimuth	179 53 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARP2
Ref Mon # 3	ARHR

Comments

Original Elevation (1283.6474') established by 3-wire levels from NGS F157 Reset by S5101 in Job 090197 in Feb 2006. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080029	1/27/2005	AHTD	CARROLL	23	090073,090424

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	223,911.2112	0.0030
Easting (M)	242,450.8596	0.0030
Elevation (M)*	496.697	
Northing (SFT)	734,615.3654	
Easting (SFT)	795,440.8619	
Elevation (SFT)*	1,629.581	

Convergence Angle	-1	1	16.3546482
Scale Factor			1.000022571
Elevation Adjust. Factor			0.9999220581
Combined Adjust. Factor			0.9999446273

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	20	19.9385592
Longitude	93	45	17.8561116
Ellipsoid Height:			468.630
Grid Northing (Meters)			223,911.2061
Grid Easting (Meters)			242,450.8460

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	36	20	19.9387320	
Longitude	93	45	17.8555716	
Ellipsoid Height (M):			468.546	0.0050
Geoid Height (M):			-28.124	0.0050

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 62, IN EUREKA SPRINGS, GO SOUTH ON HIGHWAY 23 4.25 MILES TO THE STATION MARK ON THE LEFT, EAST 28.05 METERS OF THE CENTERLINE OF THE HIGHWAY AND AT THE NORTHWEST CORNER OF TINA JOHSON'S BLONDIE'S HAIR CARE METAL BUILDING. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080029 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND. THERE IS NO WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END CATTLE GUARD GATE	203	4.40	14.4
MK # 2	NORTHWEST CORNER METAL BLDGING	137	7.50	24.6
MK # 3	TELEPHONE RISER	251	34.00	111.5

AZ Mark Station	080029A
Geodetic Azimuth	209 36 13
Grid Azimuth	210 37 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

NAD 83 (1997) DATUM REF MONUMENTS WERE NDS1, SALI, & CNWM.

ELEV.BASED ON DIGITAL LEVELS BY S5112 FOR JOB # 090424 IN NOV. 2014 FROM A SINGLE 2ND ORDER NGS BM Y 51.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080029A	1/27/2005	AHTD	CARROLL	23	090073, 090424

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	223,202.0470	
Easting (M)	242,031.0350	
Elevation (M)*	483.193	
Northing (SFT)	732,288.7159	
Easting (SFT)	794,063.4873	
Elevation (SFT)*	1,585.276	

Convergence Angle	-1	1	25.8533529
Scale Factor	1.000021093		
Elevation Adjust. Factor	0.9999241770		
Combined Adjust. Factor	0.9999452684		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	36	19	56.6927184
Longitude	93	45	34.1791992
Ellipsoid Height (M):	455.134		
Geoid Height (M):	-28.063		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 62, IN EUREKA SPRINGS, GO SOUTH ON HIGHWAY 23 4.85 MILES TO THE STATION MARK ON THE LEFT, EAST 14.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080029A 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	080029
Geodetic Azimuth	29 36 04
Grid Azimuth	30 37 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	CNWM
Ref Mon # 2	SALI
Ref Mon # 3	NDS1

Comments

ELEV.BASED ON DIGITAL LEVELS BY S5112 FOR JOB # 090424 IN NOV. 2014 FROM A SINGLE 2ND ORDER NGS BM Y 51.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080030	6/20/2005	AHTD	CARROLL	103	009702,090330

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	223,117.6691	
Easting (M)	269,078.4730	
Elevation (M)*	412.288	
Northing (SFT)	732,011.8860	
Easting (SFT)	882,801.6235	
Elevation (SFT)*	1,352.649	

Convergence Angle	0	50	54.8343870
Scale Factor	1.000021829		
Elevation Adjust. Factor	0.9999353027		
Combined Adjust. Factor	0.9999571303		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	8.2928472
Longitude	93	27	29.7662220
Ellipsoid Height (M):	384.109		
Geoid Height (M):	-28.140		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62W AND STATE HIGHWAY 103S, WEST OF GREEN FOREST, GO SOUTH ON HIGHWAY 103 0.2 MILES TO THE STATION MARK ON THE LEFT, EAST 11.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080030 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	304	29.20	95.8
MK # 2				
MK # 3				

AZ Mark Station	080030A
Geodetic Azimuth	184 36 09
Grid Azimuth	185 27 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	W.H. PHILLIPS
Ref Mon # 2	CNWM, ARP 2
Ref Mon # 3	080025, 080025A

Comments

ELEVATION WAS EST. BY THREE WIRE LEVELS DURING JOB 009702 FROM NGS BM Q 158 RESET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080030A	6/20/2005	AHTD	CARROLL	103	009702,090330

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	222,727.8970	
Easting (M)	269,041.2790	
Elevation (M)*	412.931	
Northing (SFT)	730,733.1087	
Easting (SFT)	882,679.5962	
Elevation (SFT)*	1,354.757	

Convergence Angle	0	50	55.5674018
Scale Factor	1.000021025		
Elevation Adjust. Factor	0.9999352019		
Combined Adjust. Factor	0.9999562255		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	19	55.6314132
Longitude	93	27	31.0259160
Ellipsoid Height (M):	384.775		
Geoid Height (M):	-28.136		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62W AND STATE HIGHWAY 103S, WEST OF GREEN FOREST, GO SOUTH ON HIGHWAY 103 0.4 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 1.00 METERS OF A WITNESS POST, SOUTH 11.40 METERS FROM THE CENTERLINE OF A DRIVE WAY. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080030A 2005" ON TOP OF A 1.00 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF CULVERT	34	8.60	28.2
MK # 2	COMBINATION POLE	355	4.20	13.8
MK # 3				

AZ Mark Station	080030
Geodetic Azimuth	4 36 08
Grid Azimuth	5 27 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	W.H. PHILLIPS
Ref Mon # 2	CNWM, ARP 2
Ref Mon # 3	080025, 080025A

Comments

ELEVATION WAS EST. BY THREE WIRE LEVELS DURING JOB 009702 FROM NGS BM Q 158 RESET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080031	6/20/2005	AHTD	CARROLL	62	009702

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	222,987.9451
Easting (M)	272,347.9640
Elevation (M)*	
Northing (SFT)	731,586.2832
Easting (SFT)	893,528.2786
Elevation (SFT)*	
Convergence Angle	0 49 38.5133297
Scale Factor	1.000021660
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 20 5.6360292
Longitude	93 25 18.6076524
Ellipsoid Height (M):	382.864
Geoid Height (M):	-28.160

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62E AND STATE HIGHWAY 103N, IN GREEN FOREST, GO EAST ON HIGHWAY 62 0.80 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 9.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080031 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	2.73	11.30	37.1
MK # 2	GUY WIRE	260	11.30	37.1
MK # 3	FIRE HYDRANDT #104	100	26.10	85.6

AZ Mark Station	080031A
Geodetic Azimuth	89 12 24
Grid Azimuth	90 02 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	W.H. PHILLIPS
Ref Mon # 2	CNWM, ARP 2
Ref Mon # 3	080025, 080025A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080031A	6/20/2005	AHTD	CARROLL	62	009702

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	222,987.6311	
Easting (M)	272,878.7610	
Elevation (M)*		
Northing (SFT)	731,585.2530	
Easting (SFT)	895,269.7350	
Elevation (SFT)*		

Convergence Angle	0	49	26.1298126
Scale Factor	1.000021675		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	20	5.8739784
Longitude	93	24	57.3264432
Ellipsoid Height (M):	388.393		
Geoid Height (M):	-28.164		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62E AND STATE HIGHWAY 103N, IN GREEN FOREST, GO EAST ON HIGHWAY 62 1.1 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF A ROAD 8.70METERS,, NORTH 9.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "080031 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	80	13.10	43.0
MK # 2	WEST END OF CULVERT	114	6.30	20.7
MK # 3	EAST END OF CULVERT	238	4.05	13.3

AZ Mark Station	0800331
Geodetic Azimuth	269 12 36
Grid Azimuth	270 02 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	W.H. PHILLIPS
Ref Mon # 2	CNWM, ARP 2
Ref Mon # 3	080025, 080025A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080032	3/1/2006	AHTD	CARROLL	62	090219

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	221,357.2630	
Easting (M)	276,247.7780	
Elevation (M)*	345.533	
Northing (SFT)	726,236.2870	
Easting (SFT)	906,322.9183	
Elevation (SFT)*	1,133.636	

Convergence Angle	0	48	6.9982677
Scale Factor	1.000018444		
Elevation Adjust. Factor	0.9999457775		
Combined Adjust. Factor	0.9999642205		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	19	14.5376292
Longitude	93	22	41.3380200
Ellipsoid Height (M):	317.369		
Geoid Height (M):	-28.164		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 5.10 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 98.30 FEET OF THE CENTERLINE OF THE HIGHWAY, EAST 21.0 FEET OF A CONCRETE DR

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	RIGHT OF WAY MARKER	86	1.15	3.8
MK # 2	NORTHEAST END METAL CULVERT	238	4.55	14.9
MK # 3	METAL GATE POST	329	2.40	7.9

AZ Mark Station	080032A
Geodetic Azimuth	321 21 22
Grid Azimuth	322 09 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	CNWM
Ref Mon # 3	080031, 080031A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080032A	3/1/2006	AHTD	CARROLL	62	090219

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	221,747.9161
Easting (M)	275,944.2990
Elevation (M)*	355.172
Northing (SFT)	727,517.9547
Easting (SFT)	905,327.2543
Elevation (SFT)*	1,165.260

Convergence Angle	0	48	14.2050261
Scale Factor	1.000019227		
Elevation Adjust. Factor	0.9999442650		
Combined Adjust. Factor	0.9999634910		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	19	27.0720012
Longitude	93	22	53.7229128
Ellipsoid Height (M):	327.004		
Geoid Height (M):	-28.168		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 5.40 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 101.50 FEET OF THE CENTERLINE OF THE HIGHWAY, AND SOUTHWEST 3.6 FEET OF A

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOOD FENCE POST	90	7.80	25.6
MK # 2	WOOD FENCE POST	324	8.20	26.9
MK # 3				

AZ Mark Station	080032
Geodetic Azimuth	141 21 15
Grid Azimuth	142 09 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	CNWM
Ref Mon # 3	080031, 080031A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080033	3/1/2006	AHTD	CARROLL	62	090219

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,697.0561	
Easting (M)	280,075.0000	
Elevation (M)*	407.744	
Northing (SFT)	717,508.5916	
Easting (SFT)	918,879.3958	
Elevation (SFT)*	1,337.740	

Convergence Angle	0	46	36.8832083
Scale Factor	1.000013255		
Elevation Adjust. Factor	0.9999360158		
Combined Adjust. Factor	0.9999492699		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	49.9534728
Longitude	93	20	6.4743072
Ellipsoid Height (M):	379.595		
Geoid Height (M):	-28.148		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 2.10 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.30 FEET OF THE CENTERLINE OF THE HIGHWAY, SOUTH 3.40 FEET OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE W/PEDSTAL	274	17.40	57.1
MK # 2	WOOD CORNER FENCE POST	85	12.70	41.7
MK # 3				

AZ Mark Station	080033A
Geodetic Azimuth	270 18 50
Grid Azimuth	271 05 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	CNWM
Ref Mon # 3	080031, 080031A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080033A	3/1/2006	AHTD	CARROLL	62	090219

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,705.1060	
Easting (M)	279,652.2520	
Elevation (M)*	392.710	
Northing (SFT)	717,535.0019	
Easting (SFT)	917,492.4301	
Elevation (SFT)*	1,288.416	

Convergence Angle	0	46	46.7438484
Scale Factor	1.000013260		
Elevation Adjust. Factor	0.9999383748		
Combined Adjust. Factor	0.9999516340		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	50.0283168
Longitude	93	20	23.4199248
Ellipsoid Height (M):	364.565		
Geoid Height (M):	-28.145		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 62, IN ALPENA, GO WEST ON HIGHWAY 62 FOR 2.3 MILES TO THE STATION MARK ON THE LEFT, SOUTH 37.50 FEET OF THE CENTERLINE OF THE HIGHWAY, AND NORTH 2.70 FEET OF A WITNESS POS

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST POLE ON BILLBOARD	115	18.00	59.1
MK # 2	ONLY WOOD POST ON FENCE LINE	109	18.50	60.7
MK # 3				

AZ Mark Station	080033
Geodetic Azimuth	90 18 40
Grid Azimuth	91 05 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	CNWM
Ref Mon # 3	080031, 080031A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080034	7/1/2008	AHTD	CARROLL	62	009901,090346

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	227,870.2211	
Easting (M)	257,911.4660	
Elevation (M)*	387.575	
Northing (SFT)	747,604.2171	
Easting (SFT)	846,164.5347	
Elevation (SFT)*	1,271.569	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	22	36.8594328	
Longitude	93	35	0.5376012	
Ellipsoid Height (M):	359.384			
Geoid Height (M):	-28.162			

Convergence Angle	0	55	17.1378595
Scale Factor	1.000031540		
Elevation Adjust. Factor	0.9999391806		
Combined Adjust. Factor	0.9999707186		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143, WEST OF BERRYVILLE, GO EAST ON HIGHWAY 62 FOR 2.50 MILES TO THE STATION MARK ON THE LEFT, 21 FEET WEST OF THE CENTERLINE OF A PAVED DRIVEWAY, 62 FEET NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080034 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	STEEL SIGN POST	40	6.86	22.5
MK # 2	18" CMP	243	5.49	18.0
MK # 3	18" CMP	160	13.41	44.0

AZ Mark Station	080034A
Geodetic Azimuth	150 51 05
Grid Azimuth	151 46 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, ARFY
Ref Mon # 2	ARMH
Ref Mon # 3	Z 5, WH PHILLIPS

Comments

Original elevation (1271.5882') established from Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08 for Job # 009901. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080034A	7/1/2008	AHTD	CARROLL	62	009901,090346

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	227,512.5941	
Easting (M)	258,103.4420	
Elevation (M)*	393.492	
Northing (SFT)	746,430.9025	
Easting (SFT)	846,794.3760	
Elevation (SFT)*	1,290.980	

Convergence Angle	0	55	12.5227726
Scale Factor	1.000030770		
Elevation Adjust. Factor	0.9999382522		
Combined Adjust. Factor	0.9999690203		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	25.3591068
Longitude	93	34	52.6065240
Ellipsoid Height (M):	365.310		
Geoid Height (M):	-28.158		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143, WEST OF BERRYVILLE, GO EAST ON HIGHWAY 62 FOR 2.70 MILES TO THE STATION MARK ON THE LEFT AT THE BOTTOM OF A SLOPE , 130 FEET EAST OF THE CENTERLINE OF A ASPHALT DRIVEWAY, 36 FEET NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 25 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080034A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	080034
Geodetic Azimuth	350 51 10
Grid Azimuth	331 46 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, ARFY
Ref Mon # 2	ARMH
Ref Mon # 3	Z 5, WH PHILLIPS

Comments

Original elevation (1290.9914') established from Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08 for Job # 009901. UPDATED ELEVATION ESTABLISHED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM U 5 IN APRIL 2013 BY S5112 FOR JOB # 090346.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080035	7/1/2008	AHTD	CARROLL	62	009901

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	229,420.4500
Easting (M)	254,534.4250
Elevation (M)*	365.974
Northing (SFT)	752,690.2597
Easting (SFT)	835,085.0260
Elevation (SFT)*	1,200.699
Convergence Angle	0 56 36.5586259
Scale Factor	1.000034823
Elevation Adjust. Factor	0.9999425701
Combined Adjust. Factor	0.9999773911

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 23 25.3612716
Longitude	93 37 17.0230548
Ellipsoid Height (M):	337.769
Geoid Height (M):	-28.174

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143N, WEST OF BERRYVILLE, GO EAST ON HIGHWAY 62 FOR 67 FEET TO THE STATION MARK ON THE LEFT AT THE TOP OF A DITCH BANK, 67 FEET EAST OF THE CENTERLINE OF HIGHWAY 143N, 57 FEET NORTH OF THE EDGE OF HIGHWAY 62. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080035 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24' CMP	211	11.89	39.0
MK # 2				
MK # 3				

AZ Mark Station	080035A
Geodetic Azimuth	182 47 28
Grid Azimuth	183 44 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, ARFY
Ref Mon # 2	ARMH
Ref Mon # 3	Z 5, WH PHILLIPS

Comments

Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080035A	7/1/2008	AHTD	CARROLL	NA	009901

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	228,893.9961
Easting (M)	254,500.0620
Elevation (M)*	357.863
Northing (SFT)	750,963.0522
Easting (SFT)	834,972.2867
Elevation (SFT)*	1,174.089
Convergence Angle	0 56 37.1584050
Scale Factor	1.000033660
Elevation Adjust. Factor	0.9999438428
Combined Adjust. Factor	0.9999775009

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 23 8.2664340
Longitude	93 37 18.0537816
Ellipsoid Height (M):	329.673
Geoid Height (M):	-28.169

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 143N AND CARROLL COUNTY ROAD 980, WEST OF BERRYVILLE, GO SOUTH ON COUNTY ROAD 980 FOR 0.30 MILES TO THE STATION MARK ON THE RIGHT, IN FRONT OF AIRWAY CHAPEL CHURCH, 24.0 FEET SOUTH OF THE CENTERLINE OF TRI STATE ROAD, 36 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 980 AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080035A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	283	15.85	52.0
MK # 2	NE CORNER CHURCH BLD	246	17.68	58.0
MK # 3	WATERWELL	201	13.87	45.5

AZ Mark Station	080035
Geodetic Azimuth	2 47 27
Grid Azimuth	3 44 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, ARFY
Ref Mon # 2	ARMH
Ref Mon # 3	Z 5, WH PHILLIPS

Comments

Digital Levels ran from 3rd Order NGS mark F 157 RESET by crew S5101 in October 08.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080036	9/20/2010	AHTD	CARROLL	21	090283

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	233,887.5561
Easting (M)	263,960.4620
Elevation (M)*	358.451
Northing (SFT)	767,346.0903
Easting (SFT)	866,010.2824
Elevation (SFT)*	1,176.017
Convergence Angle	0 52 58.1077309
Scale Factor	1.000045313
Elevation Adjust. Factor	0.9999437506
Combined Adjust. Factor	0.9999890610

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 25 55.1330436
Longitude	93 31 1.6128084
Ellipsoid Height (M):	330.233
Geoid Height (M):	-28.218

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 221, NORTH NORTHEAST OF BERRYVILLE, GO NORTH ON HIGHWAY 21 FOR 4.9 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE CENTERLINE OF THE HIGHWAY 44.5 FEET AND NORTH 1..2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080036 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	080036A
Geodetic Azimuth	87 18 15
Grid Azimuth	88 11 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	U 5 OFFSET
Ref Mon # 3	MOBR

Comments

3 WIRE DIGITAL LEVELS WERE RAN BY CREW S5101 FROM B35 TO D 35 AND CHECKED VIA GPS USING U 5 RESET ON 10/7/2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080036A	9/20/2010	AHTD	CARROLL	21	090283

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	233,904.4261	
Easting (M)	264,493.4040	
Elevation (M)*	359.148	
Northing (SFT)	767,401.4380	
Easting (SFT)	867,758.7763	
Elevation (SFT)*	1,178.304	

Convergence Angle	0	52	45.6653342
Scale Factor	1.000045372		
Elevation Adjust. Factor	0.9999436412		
Combined Adjust. Factor	0.9999890106		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	55.9461072
Longitude	93	30	40.2304140
Ellipsoid Height (M):	330.928		
Geoid Height (M):	-28.220		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 221, NORTH NORTHEAST OF BERRYVILLE, GO NORTH ON HIGHWAY 21 FOR 5.2 MILES TO THE MARK ON THE LEFT, NORTH OF THE CENTERLINE OF THE HIGHWAY 38.7 FEET AND SOUTH 1..7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "080036A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	80	12.95	42.5
MK # 2				
MK # 3				

AZ Mark Station	080036
Geodetic Azimuth	267 18 28
Grid Azimuth	268 11 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	U 5 OFFSET
Ref Mon # 3	MOBR

Comments

3 WIRE DIGITAL LEVELS WERE RAN BY CREW S5101 FROM B35 TO D 35 AND CHECKED VIA GPS USING U 5 RESET ON 10/7/2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080037	10/21/2014	AHTD	CARROLL	23	090424

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	220,248.5817	0.0030
Easting (M)	241,826.1162	0.0020
Elevation (M)*	494.481	

Northing (SFT)	722,598.8885	
Easting (SFT)	793,391.1829	
Elevation (SFT)*	1,622.310	

Convergence Angle	-1	1	29.4011686
Scale Factor			1.000015126
Elevation Adjust. Factor			0.9999224058
Combined Adjust. Factor			0.9999375306

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	18	20.7725724
Longitude	93	45	40.2765948
Ellipsoid Height:			466.454
Grid Northing (Meters)			220,248.5818
Grid Easting (Meters)			241,826.1053

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	36	18	20.7725760	
Longitude	93	45	40.2761592	
Ellipsoid Height (M):			466.373	0.0040
Geoid Height (M):			-28.084	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 12, NORTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 2.9 MILES TO THE MARK ON THE RIGHT, EAST 23 FEET OF THE EDGE OF THE PAVEMENT AND WEST 7.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 080037" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	20	30.90	101.4
MK # 2	POWER POLE W/2 GUYS	65	33.50	109.9
MK # 3				

AZ Mark Station	80026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

ELEV. FROM DIGITAL LEVELS BY S5112 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 2ND ORDER NGS BM Y 51.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080038	12/6/2016	AHTD	CARROLL	21	090435

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	204,843.3091	0.0010
Easting (M)	261,612.6842	0.0010
Elevation (M)*	407.004	
Northing (SFT)	672,056.7566	
Easting (SFT)	858,307.6147	
Elevation (SFT)*	1,335.314	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	10	11.8026624	
Longitude	93	32	17.6394300	
Ellipsoid Height (M):	378.980			0.0050
Geoid Height (M):	-28.025			0.0050

Convergence Angle	0	53	42.3475557
Scale Factor	0.999988087		
Elevation Adjust. Factor	0.9999361318		
Combined Adjust. Factor	0.9999242196		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 2.4 MILES TO THE MARK ON THE RIGHT, EAST 22.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH OF THE CENTERLINE OF GLISSON HOLLOW ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080038" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY	228	79.00	259.2
MK # 2				
MK # 3				

AZ Mark Station	080038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM R 145 BY S5112 IN DEC. OF 2016 FOR JOB #090435 DRY FORK CREEK SITE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080038A	12/6/2016	AHTD	CARROLL	)N HOLL	090435

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	204,634.6840	0.0020
Easting (M)	262,046.2773	0.0020
Elevation (M)*	418.917	
Northing (SFT)	671,372.2924	
Easting (SFT)	859,730.1614	
Elevation (SFT)*	1,374.397	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	10	5.2542876	
Longitude	93	32	0.1617900	
Ellipsoid Height (M):	390.892			0.0050
Geoid Height (M):	-28.022			0.0050

Convergence Angle	0	53	32.1773322
Scale Factor	0.999987763		
Elevation Adjust. Factor	0.9999342626		
Combined Adjust. Factor	0.9999220264		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 2.4 MILES TO GLISSON HOLLOW ROAD ON THE RIGHT, TURN RIGHT HERE AND GO 0.3 MILE TO THE MARK ON THE LEFT, NORTHEAST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080038A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD FENCE POST/END OF FENCE	114	2.00	6.6
MK # 2				
MK # 3				

AZ Mark Station	080038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM R 145 BY S5112 IN DEC. OF 2016 FOR JOB #090435 DRY FORK CREEK SITE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080039	12/6/2016	AHTD	CARROLL	21	090435

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,107.5177	0.0020
Easting (M)	262,374.3045	0.0020
Elevation (M)*		
Northing (SFT)	689,327.7477	
Easting (SFT)	860,806.3640	
Elevation (SFT)*		

Convergence Angle	0	53	26.5214822
Scale Factor	0.999996910		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	13	2.9569188	
Longitude	93	31	50.4421500	
Ellipsoid Height (M):	394.976			0.0180
Geoid Height (M):	-28.070			0.0180

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 5.65 MILES TO THE MARK ON THE RIGHT, 28 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 12.6 FEET WEST OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080039" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1		251		
MK # 2		286		
MK # 3				

AZ Mark Station	080039A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080039A	12/6/2016	AHTD	CARROLL	21	090435

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,536.5013	0.0020
Easting (M)	262,385.5694	0.0020
Elevation (M)*		
Northing (SFT)	690,735.1713	
Easting (SFT)	860,843.3223	
Elevation (SFT)*		

Convergence Angle	0	53	26.4144235
Scale Factor	0.999997658		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	13	16.8785652	
Longitude	93	31	50.2581684	
Ellipsoid Height (M):	389.498	0.0190		
Geoid Height (M):	-28.074	0.0190		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 21, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 5.9 MILES TO THE MARK ON THE LEFT, 17.6 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 23 FEET NORTH OF THE CENTERLINE OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 080039A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	080039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080040	6/4/2018	AHTD	CARROLL	21	090474, 090559

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,136.3420	0.0030
Easting (M)	263,185.4343	0.0030
Elevation (M)*	448.112	
Northing (SFT)	709,107.3154	
Easting (SFT)	863,467.5457	
Elevation (SFT)*	1,470.179	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	16	18.9346404	
Longitude	93	31	21.7029360	
Ellipsoid Height (M):	419.980			0.0130
Geoid Height (M):	-28.130			0.0130

Convergence Angle	0	53	9.7981586
Scale Factor	1.000007861		
Elevation Adjust. Factor	0.9999296816		
Combined Adjust. Factor	0.9999375421		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 21S IN BERRYVILLE, GO SOUTH ON HIGHWAY 21 7.4 MILES TO THE MARK ON THE LEFT, NORTHEAST OF THE C/L OF THE HIGHWAY 19.8' AND 22' SOUTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP STAMPED "2018 080040" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP W/GUY	110	19.29	63.3
MK # 2	CENTER HW	131	36.58	120.0
MK # 3				

AZ Mark Station	080040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080040A	6/4/2018	AHTD	CARROLL	21	090474, 090559

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,435.5660	0.0030
Easting (M)	262,974.8099	0.0030
Elevation (M)*	427.205	
Northing (SFT)	710,089.0195	
Easting (SFT)	862,776.5221	
Elevation (SFT)*	1,401.587	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	16	28.5353508	
Longitude	93	31	30.3262860	
Ellipsoid Height (M):	399.065			0.0130
Geoid Height (M):	-28.138			0.0130

Convergence Angle	0	53	14.8160785
Scale Factor	1.000008421		
Elevation Adjust. Factor	0.9999329622		
Combined Adjust. Factor	0.9999413826		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 21S IN BERRYVILLE, GO SOUTH ON HIGHWAY 21 7.15 MILES TO THE MARK ON THE LEFT, NORTHEAST OF THE C/L OF THE HIGHWAY 24.5' AND 15.6' SOUTHWEST OF A FENCE. THE MARK IS A STANDARD 2" CAP STAMPED "2018 080040A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP W/2 GUYS	321	21.15	69.4
MK # 2				
MK # 3				

AZ Mark Station	080040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080041	9/16/2019	ARDOT	CARROLL	21	090559

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,953.4963	0.0030
Easting (M)	263,412.9034	0.0030
Elevation (M)*	437.000	
Northing (SFT)	698,664.9291	
Easting (SFT)	864,213.8339	
Elevation (SFT)*	1,433.726	

Convergence Angle	0	53	3.3504414
Scale Factor	1.000001985		
Elevation Adjust. Factor	0.9999314251		
Combined Adjust. Factor	0.9999334100		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	14	35.8003536
Longitude	93	31	10.6224636
Ellipsoid Height (M):	408.907		
Geoid Height (M):	-28.094		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 412, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 8 MILES TO THE MARK ON THE RIGHT, 17, SOUTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "080041 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/GUY	190	28.50	93.5
MK # 2				
MK # 3				

AZ Mark Station	080041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145 (*NOTE: USED LEVELED ELEV. AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080041A	9/16/2019	ARDOT	CARROLL	21	090559

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,323.6214	0.0030
Easting (M)	263,529.7891	0.0030
Elevation (M)*	448.560	
Northing (SFT)	699,879.2479	
Easting (SFT)	864,597.3164	
Elevation (SFT)*	1,471.652	

Convergence Angle	0	53	0.7597043
Scale Factor	1.000002659		
Elevation Adjust. Factor	0.9999296112		
Combined Adjust. Factor	0.9999322700		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	14	47.8653972
Longitude	93	31	6.1702536
Ellipsoid Height (M):	420.463		
Geoid Height (M):	-28.097		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 412, EAST OF MARBLE, GO NORTH ON HIGHWAY 21 FOR 8.25 MILES TO THE MARK ON THE RIGHT, 24.4' EAST OF THE C/L OF THE HIGHWAY AND 64' SOUTH OF THE C/L OF COUNTY ROAD 717. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "080041A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	080041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2019 FOR JOB #090559 FROM NGS 2ND ORDER BM U 145 (*NOTE: USED LEVELED ELEV. AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080042	5/4/2021	ARDOT	CARROLL	103	090643

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,917.1414	0.0040
Easting (M)	268,818.1129	0.0040
Elevation (M)*		

Northing (SFT)	711,668.9881	
Easting (SFT)	881,947.4254	
Elevation (SFT)*		

Convergence Angle	0	50	58.7632326
Scale Factor	1.000009505		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	16	47.0307576
Longitude	93	27	36.5179860
Ellipsoid Height (M):	361.442	0.0170	
Geoid Height (M):	-28.169	0.0170	

Location Description

From the intersection of US Hwy. 62 and State Hwy. 103. Go south on State Hwy. 103 for 4.1 miles to the station on the right. 36.8' West of the centerline of Hwy. 103

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of box culvert	40	27.00	88.6
MK # 2	South and West Fence Corner	346	20.70	67.9
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV MOBR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080042A	5/4/2021	ARDOT	CARROLL	103	090643

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,301.3787	0.0040
Easting (M)	268,933.3854	0.0040
Elevation (M)*		
Northing (SFT)	712,929.6066	
Easting (SFT)	882,325.6153	
Elevation (SFT)*		

Convergence Angle	0	50	56.2085602
Scale Factor	1.000010244		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	16	59.5504668
Longitude	93	27	32.1277536
Ellipsoid Height (M):	380.903	0.0170	
Geoid Height (M):	-28.172	0.0170	

Location Description

From the intersection of US Hwy. 62 and State Hwy. 103 in Green Forest. Go South on State Hwy. 103 for 3.85 miles to the station on the left. 20.1' East of the centerline of State Hwy. 103, 35.6' North of the centerline of a driveway

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fence Corner	145	43.40	142.4
MK # 2	Combination Pole	62	40.30	132.2
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, MOBR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080043	5/17/2021	AHTD	Carroll	62	090650

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	229,908.4900	0.0020
Easting (M)	244,077.8548	0.0020
Elevation (M)*		

Northing (SFT)	754,291.4376	
Easting (SFT)	800,778.7620	
Elevation (SFT)*		

Convergence Angle	-1	0	40.8671607
Scale Factor	1.000035510		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 18	
Latitude	36 23 35.4049512	
Longitude	93 44 16.8699372	
Ellipsoid Height (M):	421.601	0.0110
Geoid Height (M):	-28.238	0.0110

Location Description

FROM THE INTERSECTION OF US HWY. 62 AND STATE HWY 23 SOUTH. GO NORTH ON US HWY 62 FOR 0.45 MILES TO THE STATION ON THE RIGHT. 20.3FT EAST OF THE CL OF US HWY. 62, 13.8 FT SOUTHWEST OF A FENCE CORNER

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	The Quarter Sign post	327	9.66	31.7
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, MOCS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080043A	5/17/2021	AHTD	Carroll	62	090650

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	229,584.9446	0.0020
Easting (M)	244,147.3843	0.0020
Elevation (M)*		
Northing (SFT)	753,229.9391	
Easting (SFT)	801,006.8767	
Elevation (SFT)*		

Convergence Angle	-1	0	39.1106693
Scale Factor	1.000034795		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	23	24.9502056
Longitude	93	44	13.8513876
Ellipsoid Height (M):	422.952	0.0110	
Geoid Height (M):	-28.234	0.0110	

Location Description

FROM THE INTERSECTION OF US HWY. 62 AND STATE HWY 23 SOUTH. GO NORTH ON US HWY 62 FOR 0.25 MILES TO THE STATION ON THE LEFT. 26.2FT WEST OF THE CL OF US HWY. 62, 27 FT NORTH OF CL OF DRIVEWAY TO A BANK.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	340	18.71	61.4
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV, MOCS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080044	5/2/2023	ARDOT	CARROLL	412	090639

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	209,025.9607	0.0010
Easting (M)	276,634.0490	0.0010
Elevation (M)*	497.884	0.0048
Northing (SFT)	685,779.3394	
Easting (SFT)	907,590.2091	
Elevation (SFT)*	1,633.475	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	12	34.6901292
Longitude	93	22	18.9662052
Ellipsoid Height (M):	469.749		0.0050
Geoid Height (M):	-28.071		0.0050

Convergence Angle	0	47	53.9801282
Scale Factor	0.999995405		
Elevation Adjust. Factor	0.9999218718		
Combined Adjust. Factor	0.9999172772		

Location Description

FROM THE INTERSECTION OF U. S. HIGHWAY 62 AND U.S. HIGHWAY 412 IN ALPENA, CARROLL COUNTY, ARKANSAS. TRAVEL SOUTHWEST ALONG U. S. HIGHWAY 412 FOR 8.3 MILES TO CARROLL COUNTY ROAD 905 ON THE RIGHT, TURN RIGHT AND CONTINUE ALONG CARROLL COUNTY ROAD 905 FOR 0.6 MILES TO THE TOP OF THE HILL AND THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5 IN. ARDOT GPS MONUMENT STAMPED 080044, 2023 SET FLUSH WITH THE GROUND, 0.5 FT. EAST OF A ARDOT GPS SIGN, ON TOP OF A 5/8 IN. REBAR 4 FT IN LENGTH.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	160	10.06	33.0
MK # 2	UTILITY MARKER (TRI COUNTY TELEPHON E CO.)	170	8.53	28.0
MK # 3	PIPE FENCE CORNER	180	11.58	38.0

AZ Mark Station	080044A
Geodetic Azimuth	2°47'10.3"
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	AROZ

Comments

11 FT. (3.35 M) WEST OF THE TOP OF DITCH BANK. 1 FT. (0.30M) EAST OF A 5 STRAND BARBED WIRE FENCE.
Digital levels ran from NGS 1335 by S5101 MAY 2023

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
080044A	5/2/2023	ARDOT	CARROLL	412	090639

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	209,482.1161	0.0010
Easting (M)	276,662.6255	0.0010
Elevation (M)*	501.946	0.0050
Northing (SFT)	687,275.9092	
Easting (SFT)	907,683.9638	
Elevation (SFT)*	1,646.800	

Convergence Angle	0	47	53.4625171
Scale Factor	0.999996191		
Elevation Adjust. Factor	0.9999212346		
Combined Adjust. Factor	0.9999174259		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	12	49.5008424
Longitude	93	22	18.0766848
Ellipsoid Height (M):	473.795	0.0050	
Geoid Height (M):	-28.076	0.0050	

Location Description

FROM THE INTERSECTION OF U. S. HIGHWAY 62 AND U.S. HIGHWAY 412 IN ALPENA, CARROLL COUNTY, ARKANSAS. TRAVEL SOUTHWEST ALONG U. S. HIGHWAY 412 FOR 8.3 MILES TO CARROLL COUNTY ROAD 905 ON THE RIGHT, TURN RIGHT AND CONTINUE ALONG CARROLL COUNTY ROAD 905 FOR 0.9 MILES TO THE TOP OF THE HILL AND THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5 IN. ARDOT GPS MONUMENT STAMPED 080044A, 2023 SET FLUSH WITH THE GROUND, 1.5 FT. EAST OF A CONCRETE GATE POST, ON TOP OF A 5/8 IN. REBAR 4 FT IN LENGTH.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE GATE POST	190	4.57	15.0
MK # 2	CONCRETE GATE POST	145	26.76	87.8
MK # 3	UTILITY MARKER (TRI COUNTY TELEPHON E COMPANY)	350	2.44	8.0

AZ Mark Station	080044
Geodetic Azimuth	182°47'10.3"
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	AROZ

Comments

1.5 FT. EAST OF THE NORTHERN MOST CONCRETE GATE POST.
Digital levels ran from NGS 1335 by S5101 MAY 2023

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090001	6/17/1991	AHTD	CHICOT	65	R20095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,012.1161	
Easting (M)	463,008.0450	
Elevation (M)*		
Northing (SFT)	1,587,963.0842	
Easting (SFT)	1,519,052.2276	
Elevation (SFT)*		

Convergence Angle	0	22	45.0600304
Scale Factor			0.999975148
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	25	20.0770176	
Longitude	91	19	21.0456588	
Ellipsoid Height (M):	12.060			
Geoid Height (M):	-26.737			

Location Description

THE STATION IS ON HWY. 65 SOUTH OF McGEHEE ON THE EDGE OF A GRASS LANDING STRIP, 61 FEET WEST OF THE CENTERLINE OF HWY. 65, 195 FEET NORTH OF A FIELD ENTRANCE AND 11 FEET WEST OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	112	51.73	169.7
MK # 2	NBC IN POWER TRANSMISSION POLE	31	58.80	192.9
MK # 3	NBC IN POWER POLE	7	77.52	254.3

AZ Mark Station	91090002 AZ.
Geodetic Azimuth	341 12 19
Grid Azimuth	340 49 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	HEE HAW
Ref Mon # 3	NONE

Comments

OLD PN: 91090001 SEE JOB R20089 IN FILE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090002	6/17/1991	AHTD	CHICOT	65	R20095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	484,466.2072	
Easting (M)	462,850.1470	
Elevation (M)*		
Northing (SFT)	1,589,452.8815	
Easting (SFT)	1,518,534.1906	
Elevation (SFT)*		

Convergence Angle	0	22	41.7042390
Scale Factor	0.999974391		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	25	34.8499020	
Longitude	91	19	27.0414552	
Ellipsoid Height (M):	12.385			
Geoid Height (M):	-26.737			

Location Description

THE STATION IS ON HWY. 65 SOUTH OF McGEHEE ON THE EDGE OF A GRASS LANDING STRIP, 56 FEET WEST OF THE CENTERLINE OF HWY. 65, 950 FEET SOUTH OF THE NORTH LANDING STRIP ENTRANCE AND 6.40 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	129	86.93	285.2
MK # 2	NBC IN POWER TRANSMISSION POLE	92	38.63	126.7
MK # 3	NBC IN POWER POLE	0	94.98	311.6

AZ Mark Station	91090001
Geodetic Azimuth	161 12 16
Grid Azimuth	160 49 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	HEE HAW
Ref Mon # 3	NONE

Comments

OLD PN: 91090002 SEE JOB R20089 IN FILE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090003	6/17/1991	AHTD	CHICOT	65	R20095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	491,442.0962	
Easting (M)	460,358.0840	
Elevation (M)*		
Northing (SFT)	1,612,339.6106	
Easting (SFT)	1,510,358.1473	
Elevation (SFT)*		

Convergence Angle	0	21	48.6718649
Scale Factor	0.999963408		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	29	21.7991004
Longitude	91	21	1.7944596
Ellipsoid Height (M):	12.437		
Geoid Height (M):	-26.743		

Location Description

THE STATION IS ON HWY. 65 SOUTH OF McGEHEE, 90.2 FEET NORTHEAST OF THE NORTHEAST HEADWALL OF A CROSS DRAIN, 44.83 FEET EAST OF THE CENTERLINE OF HWY. 65, 411 FEET SOUTHEAST OF A FIELD ENTRANCE AND 1.50 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	159	27.49	90.2
MK # 2	NBC IN POWER POLE	192	56.05	183.9
MK # 3	NBC IN POWER POLE	297	69.28	227.3

AZ Mark Station	91090004 AZ.
Geodetic Azimuth	329 25 35
Grid Azimuth	329 03 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	HEE HAW
Ref Mon # 3	NONE

Comments

OLD PN: 91090003 SEE JOB R20089 IN FILE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090004	6/17/1991	AHTD	CHICOT	65	R20095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	491,688.0002	
Easting (M)	460,210.6960	
Elevation (M)*		
Northing (SFT)	1,613,146.3807	
Easting (SFT)	1,509,874.5918	
Elevation (SFT)*		

Convergence Angle	0	21	45.5100587
Scale Factor	0.999963042		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	29	29.8110552
Longitude	91	21	7.4436624
Ellipsoid Height (M):	13.092		
Geoid Height (M):	-26.742		

Location Description

THE STATION IS ON HWY. 65 SOUTH OF McGEHEE, 476 FEET NORTH OF A FEDERAL AID SECONDARY (FAS) ROAD, 49.0 FEET WEST OF THE CENTERLINE OF HWY. 65 IN THE SOUTHEAST CORNER OF A LAWN IN FRONT OF A BRICK HOME, 90.0 FEET SOUTHWEST OF DRIVEWAY AND 2.60 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	155	44.90	147.3
MK # 2	NBC IN POWER POLE	334	19.97	65.5
MK # 3	NBC IN COMBINATION POLE	254	50.99	167.3

AZ Mark Station	91090003
Geodetic Azimuth	149 25 32
Grid Azimuth	149 03 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	HEE HAW
Ref Mon # 3	NONE

Comments

OLD PN: 91090004 SEE JOB R20089 IN FILE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090005	6/17/1991	AHTD	CHICOT	65	R20095,020535,020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	497,790.5939	0.0020
Easting (M)	457,304.4331	0.0020
Elevation (M)*		

Northing (SFT)	1,633,167.9735	
Easting (SFT)	1,500,339.6276	
Elevation (SFT)*		

Convergence Angle	0	20	43.2945433
Scale Factor			0.999954447
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	33	32	48.4742040	
Longitude	91	22	58.6041960	
Ellipsoid Height (M):	15.875			0.0060
Geoid Height (M):	-26.216			

Location Description

THE STATION IS ON HWY. 65 SOUTH OF McGEHEE, 0.30 MILES SOUTH OF THE JCT. OF HWY. 65 AND HWY. 165 IN THE REST AREA LAWN, 155 FEET WEST OF THE NORTH ENTRANCE, 173.55 FEET WEST OF THE CENTERLINE OF HWY. 65 AND 1.50 FEET SOUTH OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	33	32	48.4832868
Longitude	91	22	58.5946380
Ellipsoid Height:	15.456		
Grid Northing (Meters)	497,790.8752		
Grid Easting (Meters)	457,304.6780		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	46	40.42	132.6
MK # 2	NBC IN POWER POLE	89	73.87	242.3
MK # 3	NBC IN TELEPHONE POLE	106	51.12	167.7

AZ Mark Station	91090006 AZ.
Geodetic Azimuth	225 57 56
Grid Azimuth	225 37 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	HEE HAW
Ref Mon # 3	NONE

Comments

Position and GPS elevation updated in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090006	6/17/1991	AHTD	CHICOT	65	R20095,020535.020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	497,606.0825	0.0020
Easting (M)	457,115.9616	0.0020
Elevation (M)*		

Northing (SFT)	1,632,562.6223	
Easting (SFT)	1,499,721.2840	
Elevation (SFT)*		

Convergence Angle	0	20	39.1814548
Scale Factor			0.999954691
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	32	42.5334732
Longitude	91	23	5.9436528
Ellipsoid Height:			15.503
Grid Northing (Meters)			497,606.4352
Grid Easting (Meters)			457,116.2020

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	33	32	42.5220720	
Longitude	91	23	5.9530560	
Ellipsoid Height (M):			15.811	0.0060
Geoid Height (M):			-26.211	

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 165 SOUTH OF McGEHEE, GO SOUTH ON HWY. 165 0.40 MILES TO THE REST AREA ENTRANCE. THE STATION IS 316 FEET EAST OF THE CENTERLINE OF HWY. 165 ON THE SOUTH SIDE OF THE DRIVE AND 1.2 FEET NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TRIPLE RED OAK	104	25.15	82.5
MK # 2	NBC IN PERSIMMON	31	40.33	132.3
MK # 3	NBC IN TRIPLE PECAN	20	57.64	189.1

AZ Mark Station	91090005
Geodetic Azimuth	45 57 52
Grid Azimuth	45 37 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	HEE HAW
Ref Mon # 3	NONE

Comments

OLD PN: 91090006 SEE JOB R20089 IN FILE. Position and GPS elevation updated in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090007	12/17/1998	AHTD	CHICOT	65	R20097,020612

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	474,010.1211
Easting (M)	465,894.4590
Elevation (M)*	36.426
Northing (SFT)	1,555,148.2056
Easting (SFT)	1,528,522.0709
Elevation (SFT)*	119.507
Convergence Angle	0 23 46.0936537
Scale Factor	0.999993088
Elevation Adjust. Factor	0.9999942836
Combined Adjust. Factor	0.9999873717

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	19	54.7965372
Longitude	91	17	31.9968132
Ellipsoid Height (M):	10.395		
Geoid Height (M):	-26.076		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, U.S. HIGHWAY 82 WEST AND STATE HIGHWAY 144 EAST, LOCATED ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON U.S. HIGHWAY 65 FOR 0.16 KM (0.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.40 METERS WEST OF THE CENTER OF THE SOUTHBOUND LAND OF U.S. HIGHWAY 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090007A
Geodetic Azimuth	359 04 55.98381
Grid Azimuth	358 41 09.89217

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RMA 1965
Ref Mon # 2	82 V 10 W
Ref Mon # 3	LAKE

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090007A	12/17/1998	AHTD	CHICOT	65	R20097

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	474,649.2241	
Easting (M)	465,879.8010	
Elevation (M)*	36.501	
Northing (SFT)	1,557,244.9961	
Easting (SFT)	1,528,473.9804	
Elevation (SFT)*	119.754	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	20	15.5438916	
Longitude	91	17	32.3927592	
Ellipsoid Height (M):	10.416			
Geoid Height (M):	-26.085			

Convergence Angle	0	23	45.8720464
Scale Factor	0.999991870		
Elevation Adjust. Factor	0.9999942718		
Combined Adjust. Factor	0.9999861419		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, U.S. HIGHWAY 82 WEST AND STATE HIGHWAY 144 EAST, LOCATED ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON U.S. HIGHWAY 65 FOR 0.72 KM (0.45 MI) TO THE JUNCTION OF AIRPORT ROAD AND THE STATION ON THE LEFT. THE STATION IS 22.65 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 65, 10.69 METERS SOUTH OF THE CENTER OF AIRPORT ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	232	2.56	8.4
MK # 2	GUY POLE	283	14.91	48.9
MK # 3	NONE			

AZ Mark Station	090007
Geodetic Azimuth	179 04 55.76621
Grid Azimuth	178 41 09.89217

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RMA 1965
Ref Mon # 2	82 V 10 W
Ref Mon # 3	LAKE

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090008	12/17/1998	AHTD	CHICOT	65	R20097

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	468,711.4180	
Easting (M)	468,874.8740	
Elevation (M)*	37.585	
Northing (SFT)	1,537,764.0439	
Easting (SFT)	1,538,300.3158	
Elevation (SFT)*	123.310	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	17	2.1273972	
Longitude	91	15	38.2340304	
Ellipsoid Height (M):	11.550			
Geoid Height (M):	-26.016			

Convergence Angle	0	24	49.7656237	
Scale Factor	1.000003609			
Elevation Adjust. Factor	0.9999941017			
Combined Adjust. Factor	0.9999977107			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO NORTHWEST ON U.S. HIGHWAYS 65 AND 82 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.00 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAYS 82 AND 65, 7.65 METERS NORTHWEST OF A DIRT FIELD ENTRANCE AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	308	24.05	78.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090008A
Geodetic Azimuth	311 27 49.53630
Grid Azimuth	311 02 59.87997

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RMA 1965
Ref Mon # 2	82 V 10 W
Ref Mon # 3	LAKE

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090008A	12/17/1998	AHTD	CHICOT	65	R20097

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	469,166.9281	
Easting (M)	468,351.7920	
Elevation (M)*	37.298	
Northing (SFT)	1,539,258.4966	
Easting (SFT)	1,536,584.1709	
Elevation (SFT)*	122.369	

Convergence Angle	0	24	38.5223577	
Scale Factor	1.000002673			
Elevation Adjust. Factor	0.9999941468			
Combined Adjust. Factor	0.9999968197			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	17	17.0344788	
Longitude	91	15	58.3223868	
Ellipsoid Height (M):	11.249			
Geoid Height (M):	-26.019			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO NORTHWEST ON U.S. HIGHWAYS 65 AND 82 FOR 1.66 KM (1.03 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.40 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAYS 65 AND 82 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	226	2.53	8.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090008
Geodetic Azimuth	131 27 38.51143
Grid Azimuth	131 02 59.87997

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RMA 1965
Ref Mon # 2	82 V 10 W
Ref Mon # 3	LAKE

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090009	12/17/1998	AHTD	CHICOT	82	R20098

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	467,355.9080	
Easting (M)	474,381.6610	
Elevation (M)*	36.741	
Northing (SFT)	1,533,316.8415	
Easting (SFT)	1,556,367.1661	
Elevation (SFT)*	120.540	

Convergence Angle	0	26	48.6442863
Scale Factor	1.000006486		
Elevation Adjust. Factor	0.9999942342		
Combined Adjust. Factor	1.0000007202		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	16	16.7879748	
Longitude	91	12	5.8333860	
Ellipsoid Height (M):	10.599			
Geoid Height (M):	-26.078			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO EAST ON U.S. HIGHWAY 82 FOR 4.83 (3.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090009A
Geodetic Azimuth	257 39 51.85581
Grid Azimuth	257 13 03.33082

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RMA 1965
Ref Mon # 2	82 V 10 W
Ref Mon # 3	LAKE

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090009A	12/17/1998	AHTD	CHICOT	82	R20098

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	467,229.8311	
Easting (M)	473,825.9390	
Elevation (M)*	36.629	
Northing (SFT)	1,532,903.2042	
Easting (SFT)	1,554,543.9349	
Elevation (SFT)*	120.173	

Convergence Angle	0	26	36.6051220
Scale Factor	1.000006739		
Elevation Adjust. Factor	0.9999942518		
Combined Adjust. Factor	1.0000009907		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	16	12.8359488
Longitude	91	12	27.3437748
Ellipsoid Height (M):	10.543		
Geoid Height (M):	-26.066		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 SOUTH AND U.S. HIGHWAY 82, LOCATED IN FAIRVIEW, GO EAST ON U.S. HIGHWAY 82 FOR 4.26 KM (2.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.19 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 10.47 METERS EAST OF THE CENTER OF A GFRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED '090009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	247	17.67	58.0
MK # 2	CENTER OF CONCRETE HEADWALL	330	8.34	27.4
MK # 3	NONE			

AZ Mark Station	090009
Geodetic Azimuth	77 39 40.055283
Grid Azimuth	77 13 03.330818

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RMA 1965
Ref Mon # 2	82 V 10 W
Ref Mon # 3	LAKE

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090010	12/17/1998	AHTD	CHICOT	82	R20098

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	469,390.9420	
Easting (M)	477,489.6260	
Elevation (M)*	45.609	
Northing (SFT)	1,539,993.4489	
Easting (SFT)	1,566,563.8813	
Elevation (SFT)*	149.636	

Convergence Angle	0	27	56.2146667	
Scale Factor	1.000002360			
Elevation Adjust. Factor	0.9999928425			
Combined Adjust. Factor	0.9999952025			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	17	22.0372980	
Longitude	91	10	5.1053088	
Ellipsoid Height (M):	19.374			
Geoid Height (M):	-26.166			

Location Description

TO REACH THE STATION FROM THE JUNCTION U.S. HIGHWAY 82 AND A LEVEE, LOCATED ON THE SOUTHWEST END OF THE GREENVILLE / LAKE VILLAGE BRIDGE OVER THE MISSISSIPPI RIVER, GO NORTHERLY ON THE LEVEE FOR 0.21 KM (0.13 MI) TO THE JUNCTION OF A NATURAL GAS PIPELINE AND THE STATION ON THE LEFT. THE STATION IS 3.8 METERS WEST OF THE CENTER OF A GRAVEL ROAD ON TOP OF THE LEVEE AND 1.08 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090010A
Geodetic Azimuth	164 19 35.51398
Grid Azimuth	163 51 39.25799

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RMA 1965
Ref Mon # 2	82 V 10 W
Ref Mon # 3	LAKE

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090010A	12/17/1998	AHTD	CHICOT	82	R20098

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	468,690.0030	
Easting (M)	477,692.4590	
Elevation (M)*	46.453	
Northing (SFT)	1,537,693.7848	
Easting (SFT)	1,567,229.3426	
Elevation (SFT)*	152.403	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	16	59.2328568	
Longitude	91	9	57.4870752	
Ellipsoid Height (M):	20.252			
Geoid Height (M):	-26.156			

Convergence Angle	0	28	0.4785211
Scale Factor	1.000003791		
Elevation Adjust. Factor	0.9999927101		
Combined Adjust. Factor	0.9999965011		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND A LEVEE, LOCATED ON THE SOUTHWEST END OF THE GREENVILLE / LAKE VILLAGE BRIDGE OVER THE MISSISSIPPI RIVER, GO SOUTHERLY ON THE LEVEE FOR 0.40 KM (0.25 MI) TO THE HIGHEST POINT OF THE LEVEE AND THE STATION ON THE LEFT. THE STATION IS 5.00 METERS EAST OF A GRAVEL ROAD ON TOP OF THE LEVEE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090010A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090010
Geodetic Azimuth	344 19 39.69506
Grid Azimuth	343 51 39.25798

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RMA 1965
Ref Mon # 2	82 V 10 W
Ref Mon # 3	LAKE

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090011	7/19/2000	AHTD	CHICOT	160	002970

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	460,758.7348
Easting (M)	452,688.9680
Elevation (M)*	
Northing (SFT)	1,511,672.6158
Easting (SFT)	1,485,197.0558
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	12	47.3463252
Longitude	91	26	5.4430872
Ellipsoid Height (M):	8.053		
Geoid Height (M):	-25.845		

Convergence Angle	0	18	58.7225559
Scale Factor	1.000020396		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 16.57 KM (10.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 494.902 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090011A
Geodetic Azimuth	271 10 13.45531
Grid Azimuth	270 51 14.84677

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	82V 10W
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090011A	7/19/2000	AHTD	CHICOT	160	002970

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	460,766.1122
Easting (M)	452,194.1134
Elevation (M)*	
Northing (SFT)	1,511,696.8198
Easting (SFT)	1,483,573.5204
Elevation (SFT)*	
Convergence Angle	0 18 48.0287636
Scale Factor	1.000020373
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	12	47.6740404
Longitude	91	26	24.5496984
Ellipsoid Height (M):	7.921		
Geoid Height (M):	-25.844		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 17.06 KM (10.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 27.40 METERS EAST OF A GRAVEL DRIVEWAY, 8.20 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 494.902 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF CMP	268	22.90	75.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090011
Geodetic Azimuth	91 10 02.989552
Grid Azimuth	90 51 14.846773

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	82V 10W
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090012	7/19/2000	AHTD	CHICOT	160	002970

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	460,687.1111	
Easting (M)	461,351.1196	
Elevation (M)*		
Northing (SFT)	1,511,437.6303	
Easting (SFT)	1,513,616.1316	
Elevation (SFT)*		

Convergence Angle	0	22	5.9156441
Scale Factor	1.000020671		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	12	43.3417896
Longitude	91	20	30.9849792
Ellipsoid Height (M):	9.780		
Geoid Height (M):	-25.842		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 7.97 KM (4.95 MI) TO THE STATION ON THE LEFT SET ON TOP OF A LEVEE. THE STATION IS 19.55 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160, 12.80 METERS WEST OF THE CENTER OF A GRAVEL ROAD, 5.35 METERS SOUTH OF THE CENTER OF A DIRT ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090012 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 786.368 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090012A
Geodetic Azimuth	273 47 52.39477
Grid Azimuth	273 25 46.66015

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	82V 10W
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090012A	7/19/2000	AHTD	CHICOT	160	002970

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	460,734.1544
Easting (M)	460,566.1466
Elevation (M)*	
Northing (SFT)	1,511,591.9716
Easting (SFT)	1,511,040.7660
Elevation (SFT)*	
Convergence Angle	0 21 48.9577793
Scale Factor	1.000020555
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	12	45.0314532
Longitude	91	21	1.2836160
Ellipsoid Height (M):	8.422		
Geoid Height (M):	-25.844		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 160, LOCATED AT CHICOT JUNCTION, GO WEST ON STATE HIGHWAY 160 FOR 8.76 KM (5.44 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 786.368 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	293	4.45	14.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090012
Geodetic Azimuth	93 47 35.798918
Grid Azimuth	93 25 46.660149

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	82V 10W
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090013	4/2/2001	AHTD	CHICOT	82	020260,020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	470,583.0434	
Easting (M)	451,977.9122	
Elevation (M)*	35.913	
Northing (SFT)	1,543,904.5349	
Easting (SFT)	1,482,864.2003	
Elevation (SFT)*	117.826	

Convergence Angle	0	18	44.5129479
Scale Factor	0.999999614		
Elevation Adjust. Factor	0.9999943641		
Combined Adjust. Factor	0.9999939781		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	6.3525420
Longitude	91	26	30.8314104
Ellipsoid Height (M):	9.960		
Geoid Height (M):	-25.906		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 14.31 KM (8.89 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.50 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 12.00 METERS SOUTH OF THE CENTER OF A DIRT ROAD, 8.10 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.407 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	345	5.75	18.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090013A
Geodetic Azimuth	82 45 53.810713
Grid Azimuth	82 27 09.172641

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

old elev = 34.871 meters. New for Job 020321 is listed.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090013A	4/2/2001	AHTD	CHICOT	82	020260,020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	470,663.6132	
Easting (M)	452,586.0084	
Elevation (M)*	35.909	
Northing (SFT)	1,544,168.8710	
Easting (SFT)	1,484,859.2626	
Elevation (SFT)*	117.810	

Convergence Angle	0	18	57.6781153
Scale Factor	0.999999460		
Elevation Adjust. Factor	0.9999943648		
Combined Adjust. Factor	0.9999938248		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	8.8594632
Longitude	91	26	7.3091904
Ellipsoid Height (M):	9.993		
Geoid Height (M):	-25.911		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 13.73 KM (8.53 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.75 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.407 METER.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090013
Geodetic Azimuth	262 46 06.72567
Grid Azimuth	262 27 09.17264

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

old elev = 34.867 meters. New for Job 020321 is listed.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090014	4/2/2001	AHTD	CHICOT	82	020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	471,252.4697
Easting (M)	456,981.6620
Elevation (M)*	36.090
Northing (SFT)	1,546,100.8110
Easting (SFT)	1,499,280.6694
Elevation (SFT)*	118.404

Convergence Angle	0	20	32.8503611
Scale Factor			0.999998341
Elevation Adjust. Factor			0.9999943364
Combined Adjust. Factor			0.9999926774

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	27.1528668
Longitude	91	23	17.2648284
Ellipsoid Height (M):	10.094		
Geoid Height (M):	-25.949		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 9.35 KM (5.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82, 8.10 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 576.114 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF CMP	140	6.60	21.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090014A
Geodetic Azimuth	82 25 22.329142
Grid Azimuth	82 04 49.362278

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090014A	4/2/2001	AHTD	CHICOT	82	020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	471,331.8485	
Easting (M)	457,552.2783	
Elevation (M)*	36.091	
Northing (SFT)	1,546,361.2396	
Easting (SFT)	1,501,152.7664	
Elevation (SFT)*	118.409	

Convergence Angle	0	20	45.2062373
Scale Factor	0.999998191		
Elevation Adjust. Factor	0.9999943361		
Combined Adjust. Factor	0.9999925271		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	29.6181036
Longitude	91	22	55.1885700
Ellipsoid Height (M):	10.095		
Geoid Height (M):	-25.954		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 8.79 KM (5.46 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 576.114 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	103	23.20	76.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090014
Geodetic Azimuth	262 25 34.45205
Grid Azimuth	262 04 49.36228

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090015	4/2/2001	AHTD	CHICOT	82	020321,020612

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	472,003.0530	
Easting (M)	461,819.9724	
Elevation (M)*	36.647	
Northing (SFT)	1,548,563.3497	
Easting (SFT)	1,515,154.3594	
Elevation (SFT)*	120.233	

Convergence Angle	0	22	17.6341251
Scale Factor	0.999996922		
Elevation Adjust. Factor	0.9999942489		
Combined Adjust. Factor	0.9999911709		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	50.5368972
Longitude	91	20	10.0475556
Ellipsoid Height (M):	10.589		
Geoid Height (M):	-25.999		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 4.46 KM (2.77 MI) TO THE AHTD CHICOT COUNTY YARD AND THE STATION ON THE RIGHT. THE STATION IS 17.70 NORTH OF THE CENTER OF U..S. HIGHWAY 82, 5.00 METERS NORTHEAST OF THE NORTHEAST CORNER OF THE PARKING LOT AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090015 2001" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST OF CHAIN LINK FENCE	12	4.60	15.1
MK # 2	TELEPHONE JUNCTION BOX	36	2.80	9.2
MK # 3	WATER METER	317	5.80	19.0

AZ Mark Station	090015A
Geodetic Azimuth	256 14 35.81329
Grid Azimuth	255 52 18.28526

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090015A	4/2/2001	AHTD	CHICOT	82	020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	471,871.2939
Easting (M)	461,296.5101
Elevation (M)*	36.422
Northing (SFT)	1,548,131.0701
Easting (SFT)	1,513,436.9669
Elevation (SFT)*	119.493

Convergence Angle	0	22	6.2896534
Scale Factor			0.999997174
Elevation Adjust. Factor			0.9999942843
Combined Adjust. Factor			0.9999914583

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	46.3699584
Longitude	91	20	30.3167364
Ellipsoid Height (M):	10.377		
Geoid Height (M):	-25.992		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 5.00 KM (3.11 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 6.70 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 539.796 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	090015
Geodetic Azimuth	76 14 24.681068
Grid Azimuth	75 52 18.285261

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	82 V 10W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090016	1/22/2003	AHTD	CHICOT	159	020382

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	444,581.3860	
Easting (M)	467,012.6120	
Elevation (M)*	41.016	
Northing (SFT)	1,458,597.4306	
Easting (SFT)	1,532,190.5445	
Elevation (SFT)*	134.565	

Convergence Angle	0	24	5.8277137	
Scale Factor	1.000059972			
Elevation Adjust. Factor	0.9999935634			
Combined Adjust. Factor	1.0000535350			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	3	59.3535492	
Longitude	91	16	56.7379452	
Ellipsoid Height (M):	15.086			
Geoid Height (M):	-25.969			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 159 AND STATE HIGHWAY 52 LOCATED ABOUT 3.54 MILES NORTH OF THE ARKANSAS / LOUISANA STATE LINE GO NORTH ON STATE HIGHWAY 159 FOR 1.05 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 159 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "090016 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER VALVE	233	9.40	30.8
MK # 2				
MK # 3				

AZ Mark Station	090016A
Geodetic Azimuth	201 04 08
Grid Azimuth	200 40 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1 & 480016
Ref Mon # 2	VICKSBURG CORS
Ref Mon # 3	WINNFIELD CORS

Comments

3 WIRE ELEVATIONS FROM COE B POINT. THIRD ORDER AS PER D.K.CARSON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090016A	1/22/2003	AHTD	CHICOT	159	020382

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	444,087.7889	
Easting (M)	466,826.4210	
Elevation (M)*	40.041	
Northing (SFT)	1,456,978.0207	
Easting (SFT)	1,531,579.6829	
Elevation (SFT)*	131.366	

Convergence Angle	0	24	1.7362510
Scale Factor			1.000061270
Elevation Adjust. Factor			0.9999937164
Combined Adjust. Factor			1.0000549860

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	3	43.3750356	
Longitude	91	17	4.0481664	
Ellipsoid Height (M):	14.118			
Geoid Height (M):	-25.971			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 159 AND STATE HIGHWAY 52 LOCATED ABOUT 3.54 MILES NORTH OF THE ARKANSAS / LOUISANA STATE LINE GO NORTH ON STATE HIGHWAY 159 FOR 0.70 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 159 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "090016A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	306	19.00	62.3
MK # 2				
MK # 3				

AZ Mark Station	090016
Geodetic Azimuth	21 04 04
Grid Azimuth	20 40 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1 & 480016
Ref Mon # 2	VICKSBURG CORS
Ref Mon # 3	WINNFIELD CORS

Comments

3 WIRE ELEVATIONS FROM COE B POINT. THIRD ORDER AS PER D.K.CARSON

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090017	3/22/2005	AHTD	CHICOT	82	020321, 020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,584.4485	0.0020
Easting (M)	451,967.9011	0.0020
Elevation (M)*		
Northing (SFT)	1,543,909.1448	
Easting (SFT)	1,482,831.3555	
Elevation (SFT)*		

Convergence Angle	0	18	44.2965329
Scale Factor			0.999999612
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:	Geoid 18		
Latitude	33	18	6.3999180
Longitude	91	26	31.2180792
Ellipsoid Height (M):	10.056		0.0190
Geoid Height (M):	-25.995		0.0190

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 14.31 KM (8.89 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82, 11.60 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090017 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	18	6.4001340
Longitude	91	26	31.2179676
Ellipsoid Height:	10.309		
Grid Northing (Meters)	470,584.4551		
Grid Easting (Meters)	451,967.9040		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	65	9.70	31.8
MK # 2	UNDERGROUND CABLE MARKER	291	25.80	84.6
MK # 3				

AZ Mark Station	090017A
Geodetic Azimuth	82 21 08
Grid Azimuth	82 02 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

SUPERCEDED GEOID HT. IS -25.906m
SUPERCEDED REF. MONUMENTS ARE GPS POINTS 020014, 090014, 090015, 020014A AND MARKS 82 V 10W & CSAL
**********STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090017A	3/22/2005	AHTD	CHICOT	82	020321

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	470,672.4021
Easting (M)	452,596.8570
Elevation (M)*	
Northing (SFT)	1,544,197.7059
Easting (SFT)	1,484,894.8550
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	18	9.1427940
Longitude	91	26	6.8879760
Ellipsoid Height (M):	9.858		
Geoid Height (M):	-25.911		

Convergence Angle	0	18	57.9138651
Scale Factor	0.999999443		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 82, U.S. HIGHWAY 65 AND U.S. HIGHWAY 278, LOCATED ON THE NORTH SIDE OF LAKE VILLAGE, GO WEST ON U.S. HIGHWAY 82 FOR 13.73 KM (8.53 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.4 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "090017A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090017
Geodetic Azimuth	262 21 21
Grid Azimuth	262 02 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	020014, 090014, 090015
Ref Mon # 2	090014A, 020014A
Ref Mon # 3	82 V 10W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090018	2/21/2006	AHTD	Chicot	65	R20089

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	474,649.2381	
Easting (M)	465,879.6750	
Elevation (M)*	36.366	
Northing (SFT)	1,557,245.0420	
Easting (SFT)	1,528,473.5671	
Elevation (SFT)*	119.312	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	20	15.5443740	
Longitude	91	17	32.3976264	
Ellipsoid Height (M):	10.295			
Geoid Height (M):	-26.085			

Convergence Angle	0	23	45.8693223
Scale Factor	0.999991870		
Elevation Adjust. Factor	0.9999942930		
Combined Adjust. Factor	0.9999861630		

Location Description

To reach the station from the junction of highways 65,82 and 144 in Lake Village, go northeasterly on Hwy-65 for 0.45 miles to the station on the left. 74.30 feet west of the center of Hwy-65, 35.07 feet south of the center of the airport road and 1.65 fe

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	232	2.50	8.2
MK # 2	Guy pole	283	14.91	48.9
MK # 3				

AZ Mark Station	090007
Geodetic Azimuth	179 04 16
Grid Azimuth	178 40 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	82V 10 W
Ref Mon # 2	Lake
Ref Mon # 3	090007, 090008, 090009,090010

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090019	2/21/2006	AHTD	Chicot	65	R20089

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	469,193.4130	
Easting (M)	468,365.4560	
Elevation (M)*	36.539	
Northing (SFT)	1,539,345.3892	
Easting (SFT)	1,536,629.0002	
Elevation (SFT)*	119.878	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	17	17.8909476	
Longitude	91	15	57.7869768	
Ellipsoid Height (M):	10.520			
Geoid Height (M):	-26.019			

Convergence Angle	0	24	38.8220217
Scale Factor	1.000002619		
Elevation Adjust. Factor	0.9999942659		
Combined Adjust. Factor	0.9999968849		

Location Description

To reach the station from the junction of highways 65 and 82 in Fairview just south of Lake Village, go northwest on Hwy-65 for 1.03 miles to the station on the right. 40.38 feet northeast of the center of Hwy-65 and 1.65 feet southwest of a witness post

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	336	15.84	52.0
MK # 2				
MK # 3				

AZ Mark Station	090008
Geodetic Azimuth	133 49 35
Grid Azimuth	133 24 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	82V 10 W, 090007
Ref Mon # 2	Lake, 090008,090009
Ref Mon # 3	090009A, 090010

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090020	2/21/2006	AHTD	Chicot	82	R20089

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	468,688.6861
Easting (M)	477,683.0720
Elevation (M)*	46.095
Northing (SFT)	1,537,689.4643
Easting (SFT)	1,567,198.5454
Elevation (SFT)*	151.230

Convergence Angle	0	28	0.2752594
Scale Factor			1.000003793
Elevation Adjust. Factor			0.9999927662
Combined Adjust. Factor			0.9999965592

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	16	59.1925944	
Longitude	91	9	57.8502432	
Ellipsoid Height (M):	19.939			
Geoid Height (M):	-26.156			

Location Description

To reach the station from the junction of Hwy-82 and the Mississippi river levee south of Lake Village and near the Greenville bridge, go south on the levee for 0.25 miles to the highest point of the levee and the station on the right 14 feet west of the

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	090010
Geodetic Azimuth	345 03 57
Grid Azimuth	344 35 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	82V 10 W, Lake
Ref Mon # 2	090007, 090008,090009
Ref Mon # 3	090009A, 090010

Comments

3-Wire Levels were ran in Job R20089/R20097/R20098 by S5101 (1999) and S5111 (2006) from USGS UE 3 PHJ B, 1 LMT 1977, and WLB 10 (Job 020160 based on NGS 68-A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090021	10/3/2011	AHTD	Chicot	65	020535

Zone	Zone Code
Arkansas South	302

Horizontal Datum		
Northing (M)	491,294.8700	
Easting (M)	460,456.9719	
Elevation (M)*		
Northing (SFT)	1,611,856.5860	
Easting (SFT)	1,510,682.5820	
Elevation (SFT)*		

Convergence Angle	0	21	50.7955886
Scale Factor			0.999963628
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude	33	29	17.0000002
Longitude	91	20	57.9999998
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

Starting at the intersection of highway 208 and 65 go south on 65 for 1.4 miles to the station on the left. The station is a standard alum. cap stamped (090021 2011) and is set on a 4 foot 5/8" rebar. It is set 61' east of the center line of the north bound lanes of 65, it is 25' west of a witness post. Lat.33.2917 Lon.091.2058

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	opower pole	65	7.62	25.0
MK # 2	intersections of two farm roads	125	7.31	24.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090022	10/3/2011	AHTD	Chicot	165	020535

Zone	Zone Code
Arkansas South	302

Horizontal Datum		
Northing (M)	493,281.1114	
Easting (M)	452,520.8562	
Elevation (M)*		
Northing (SFT)	1,618,373.1130	
Easting (SFT)	1,484,645.5090	
Elevation (SFT)*		

Convergence Angle	0	18	58.9705477
Scale Factor			0.999960651
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude	33	30	23.0000000
Longitude	91	26	4.9999999
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

This station is set in the north west corner of the intersection of highway 208 and 165. The station is a standard alum. cap stamped(090022 2011) and is set on a 4 foot 5/8" rebar. It is 44' west of the center line of highway 165 and 29' north of a witness post. Lat.33.3023 Lon.091.2605

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	nearest rail	280	18.59	61.0
MK # 2	cmp	190	10.36	34.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090022A	10/3/2011	AHTD	Chicot	165	020535

Zone	Zone Code
Arkansas South	302

Horizontal Datum		
Northing (M)	492,787.7622	
Easting (M)	452,446.1485	
Elevation (M)*		
Northing (SFT)	1,616,754.5165	
Easting (SFT)	1,484,400.4055	
Elevation (SFT)*		

Convergence Angle	0	18	57.2914756
Scale Factor			0.999961363
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude	33	30	6.9999998
Longitude	91	26	8.0000002
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

Starting at the intersection of highway 208 and 165 go south on 165 for 0.3 miles to the station on the left. The station is a standard alum. cap stamped(090022A 2011) and is set on a 4 foot 5/8" rebar. It is 24' east of the center line of 165 and is 2' west of a witness post. Lat.33.3007 Lon.091.2608

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL of ditch	west	5.79	19.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090023		AHTD	Chicot	144	020043

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	479,420.9481	
Easting (M)	471,813.0047	
Elevation (M)*	37.193	
Northing (SFT)	1,572,900.2272	
Easting (SFT)	1,547,939.8329	
Elevation (SFT)*	122.025	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid09			
Latitude	33	22	49.0331820	
Longitude	91	13	41.5697844	
Ellipsoid Height (M):	10.795			
Geoid Height (M):	-26.317			

Convergence Angle	0	25	55.0615157	
Scale Factor	0.999983173			
Elevation Adjust. Factor	0.9999941632			
Combined Adjust. Factor	0.9999773363			

Location Description

Starting at the junction of highways 144 and 257 go east on 144 for 1.9 miles to the station on the left. The station is a standard alum. cap and 4 foot rebar. LAT.33.2249 LON.91.1343

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East of 18"cmp	245	22.25	73.0
MK # 2	north of center line of highway 144	160	10.67	35.0
MK # 3	north west of combo pole	110	32.92	108.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090023A		AHTD	Chicot	144	020043

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	479,479.4434	
Easting (M)	472,317.5167	
Elevation (M)*	36.542	
Northing (SFT)	1,573,092.1406	
Easting (SFT)	1,549,595.0527	
Elevation (SFT)*	119.890	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid09			
Latitude	33	22	50.8079316	
Longitude	91	13	22.0338840	
Ellipsoid Height (M):	10.130			
Geoid Height (M):	-26.325			

Convergence Angle	0	26	5.9955772	
Scale Factor	0.999983075			
Elevation Adjust. Factor	0.9999942653			
Combined Adjust. Factor	0.9999773404			

Location Description

Starting at the junction of highway 144 and 257 go east for 2.2 miles to the station on the left. The station is a standard alum. cap and 4 foot rebar. LAT.33.2251 LON.91.1322

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	North east of 18" cmp	218	1.83	6.0
MK # 2	north of the center line of highway 144	182	10.06	33.0
MK # 3	east of telphone box	275	20.73	68.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM USGS 3RD ORDER BM "1 LMT 1977" BY GARVER DURING JOB 020043 IN MARCH 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090024	10/9/2018	ARDOT	CHICOT	35	020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)
Northing (M)	497,948.2760
Easting (M)	470,720.7671
Elevation (M)*	
Northing (SFT)	1,633,685.3022
Easting (SFT)	1,544,356.3834
Elevation (SFT)*	
Convergence Angle	0 25 34.3951657
Scale Factor	0.999954358
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	32	50.6600880
Longitude	91	14	18.4943760
Ellipsoid Height (M):	15.856		
Geoid Height (M):	-26.450		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION 0F STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 6.25 MILES TO THE STATION MARK ON THE LEFT, WEST 20' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "090024 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	313	30.17	99.0
MK # 2				
MK # 3				

AZ Mark Station	090024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090024A	10/9/2018	ARDOT	CHICOT	35	020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	498,375.6339	
Easting (M)	470,477.7327	
Elevation (M)*		
Northing (SFT)	1,635,087.3922	
Easting (SFT)	1,543,559.0280	
Elevation (SFT)*		

Convergence Angle	0	25	29.1910967
Scale Factor			0.999953790
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	33	4.5898920
Longitude	91	14	27.7924920
Ellipsoid Height (M):	15.954		
Geoid Height (M):	-26.448		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION 0F STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 6.55 MILES TO THE STATION MARK ON THE LEFT, WEST 21.7' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "090024A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	67	20.42	67.0
MK # 2				
MK # 3				

AZ Mark Station	090024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090025	1/26/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,282.5489	0.0020
Easting (M)	450,381.1229	0.0020
Elevation (M)*		
Northing (SFT)	1,542,918.6625	
Easting (SFT)	1,477,625.4007	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	17	56.8772088	
Longitude	91	27	32.6143584	
Ellipsoid Height (M):	9.875			0.0190
Geoid Height (M):	-25.980			0.0190

Convergence Angle	0	18	9.9336073
Scale Factor	1.000000198		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090025 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO EAST ON US-82 2.0 MILES TO RUDY MCGEHEE RD. GO SOUTH ON RUDY MCGEHEE RD 0.05 MILES TO STATION ON LEFT. 22' EAST OF C/L RUDY MCGEHEE RD. 35' NORTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "090025 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	240	17.68	58.0
MK # 2				
MK # 3				

AZ Mark Station	090025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090025A	1/26/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	469,860.6795	0.0020
Easting (M)	450,373.4053	0.0020
Elevation (M)*		
Northing (SFT)	1,541,534.5793	
Easting (SFT)	1,477,600.0806	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	17	43.1853468	
Longitude	91	27	32.9988096	
Ellipsoid Height (M):	9.654			0.0190
Geoid Height (M):	-25.979			0.0190

Convergence Angle	0	18	9.7184335
Scale Factor	1.000001044		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090025A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-165 IN MONTROSE, GO EAST ON US-82 2.0 MILES TO RUDY MCGEHEE RD. GO SOUTH ON RUDY MCGEHEE RD 0.3 MILES TO STATION ON LEFT. 26' EAST OF C/L RUDY MCGEHEE RD. THE MARK IS A STANDARD 2½" CAP STAMPED "090025A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	36" CUS	210	14.00	45.9
MK # 2				
MK # 3				

AZ Mark Station	090025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090026	1/26/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,672.3275	0.0020
Easting (M)	452,596.9060	0.0020
Elevation (M)*		
Northing (SFT)	1,544,197.4611	
Easting (SFT)	1,484,895.0158	
Elevation (SFT)*		

Convergence Angle	0	18	57.9149169	
Scale Factor	0.999999443			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	18	9.1403640	
Longitude	91	26	6.8860968	
Ellipsoid Height (M):	9.499	0.0190		
Geoid Height (M):	-26.001	0.0190		

Location Description

090026 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO WEST ON US-82 1.6 MILES TO STATION ON RIGHT. 60' EAST OF C/L US-82. THE MARK IS A STANDARD 2½" CAP STAMPED "090026 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090027	1/26/2021	ARDOT	CHICOT	SR-293	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	471,680.6470	0.0020
Easting (M)	455,131.8770	0.0020
Elevation (M)*		
Northing (SFT)	1,547,505.5894	
Easting (SFT)	1,493,211.8331	
Elevation (SFT)*		

Convergence Angle	0	19	52.8830549
Scale Factor	0.999997475		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	18	41.4038124
Longitude	91	24	28.6744608
Ellipsoid Height (M):	9.747	0.0180	
Geoid Height (M):	-26.029	0.0180	

Location Description

090027 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO NORTH ON SR-293 0.4 MILES TO STATION ON RIGHT. 23' EAST OF C/L SR-293. 22' NORTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "090027 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	160	13.11	43.0
MK # 2				
MK # 3				

AZ Mark Station	090027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090027A	1/26/2021	ARDOT	CHICOT	SR-293	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	471,183.8970	0.0020
Easting (M)	455,146.4846	0.0020
Elevation (M)*		
Northing (SFT)	1,545,875.8354	
Easting (SFT)	1,493,259.7582	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	18	25.2774180	
Longitude	91	24	28.2208464	
Ellipsoid Height (M):	9.442			0.0180
Geoid Height (M):	-26.026			0.0180

Convergence Angle	0	19	53.1369387
Scale Factor	0.999998456		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090027A TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO NORTH ON SR-293 0.1 MILES TO STATION ON RIGHT. 39' EAST OF C/L SR-293. 38' WEST OF A LEVEE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "090027A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	0	29.26	96.0
MK # 2				
MK # 3				

AZ Mark Station	090027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090028	1/26/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	472,176.7282	0.0020
Easting (M)	463,606.3289	0.0020
Elevation (M)*		
Northing (SFT)	1,549,133.1491	
Easting (SFT)	1,521,015.0974	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	18	55.7926128	
Longitude	91	19	0.9444576	
Ellipsoid Height (M):	11.286			0.0180
Geoid Height (M):	-26.118			0.0180

Convergence Angle	0	22	56.3104855
Scale Factor	0.999996605		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090028 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO WEST ON US-82 1.5 MILES TO REGINELLI ROAD. GO SOUTH ON REGINELLI ROAD 0.4 MILES TO STATION ON LEFT. 26' EAST OF C/L REGINELLI ROAD. 22' NORTH OF A FIELD ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "090028 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	290	2.13	7.0
MK # 2	WELL HEAD	350	4.26	14.0
MK # 3				

AZ Mark Station	090028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090028A	1/26/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	472,648.6973	0.0020
Easting (M)	463,679.1986	0.0020
Elevation (M)*		
Northing (SFT)	1,550,681.6011	
Easting (SFT)	1,521,254.1707	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	19	11.0960508	
Longitude	91	18	58.0054644	
Ellipsoid Height (M):	10.709			0.0180
Geoid Height (M):	-26.127			0.0180

Convergence Angle	0	22	57.9554126
Scale Factor	0.999995685		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090028A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO WEST ON US-82 1.5 MILES TO REGINELLI ROAD. GO SOUTH ON REGINELLI ROAD 0.1 MILES TO STATION ON LEFT. 11' EAST OF C/L REGINELLI ROAD. AT THE EDGE OF A CULTIVATED FIELD. THE MARK IS A STANDARD 2½" CAP STAMPED "090028A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090029	1/26/2021	ARDOT	CHICOT	US-65	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	474,109.3332	0.0020
Easting (M)	465,935.2121	0.0020
Elevation (M)*		
Northing (SFT)	1,555,473.7040	
Easting (SFT)	1,528,655.7750	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	19	58.0076256	
Longitude	91	17	30.3944856	
Ellipsoid Height (M):	10.296			0.0170
Geoid Height (M):	-26.179			0.0170

Convergence Angle	0	23	46.9904615
Scale Factor	0.999992899		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090029 TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO NORTHT ON US-65 0.2 MILES TO STATION ON LEFT. 35' EAST OF C/L NORTHBOUND US-65. 14' NORTH OF A NORTH END OF A HEADWALL. 18' SOUTH OF A FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "090029 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090029A	1/26/2021	ARDOT	CHICOT	US-65	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	474,634.5741	0.0020
Easting (M)	465,891.4752	0.0020
Elevation (M)*		
Northing (SFT)	1,557,196.9319	
Easting (SFT)	1,528,512.2816	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	20	15.0657612	
Longitude	91	17	31.9452432	
Ellipsoid Height (M):	10.184			0.0170
Geoid Height (M):	-26.186			0.0170

Convergence Angle	0	23	46.1225169
Scale Factor	0.999991898		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090029A TO REACH THE STATION MARK FROM THE JCT OF US-82 & US-65 IN LAKE VILLAGE, GO NORTHT ON US-65 0.5 MILES TO STATION ON LEFT. 37' WEST OF C/L SOUTHBOUND US-65. 84' SOUTH OF AIRPORT ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "090029A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	330	19.20	63.0
MK # 2				
MK # 3				

AZ Mark Station	090029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090030	1/27/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	470,811.6421	0.0020
Easting (M)	458,427.0637	0.0020
Elevation (M)*		

Northing (SFT)	1,544,654.5291	
Easting (SFT)	1,504,022.7915	
Elevation (SFT)*		

Convergence Angle	0	21	4.0637271
Scale Factor	0.999999233		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	Level - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	18	12.5604180
Longitude	91	22	21.4958712
Ellipsoid Height (M):	9.443		0.0190
Geoid Height (M):	-26.050		0.0190

Location Description

090030 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 2.0 MILES TO BILL YOUNG ROAD. GO SOUTH ON BILL YOUNG ROAD 0.4 MILES TO STATION ON RIGHT. 23' WEST OF C/L BILL YOUNG ROAD. 24' NORTH OF A DIRT FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "090030 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090030A	1/27/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	471,290.2923	0.0020
Easting (M)	458,421.3793	0.0020
Elevation (M)*		
Northing (SFT)	1,546,224.9007	
Easting (SFT)	1,504,004.1419	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	18	28.0976796	
Longitude	91	22	21.6022152	
Ellipsoid Height (M):	9.045			0.0190
Geoid Height (M):	-26.055			0.0190

Convergence Angle	0	21	4.0042073
Scale Factor	0.999998284		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090030A TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 2.0 MILES TO BILL YOUNG ROAD. GO SOUTH ON BILL YOUNG ROAD 0.1 MILES TO STATION ON RIGHT. 19' WEST OF C/L BILL YOUNG ROAD. 45' NORTH OF A GRAVEL DRIVE. 76' OF A POWER POLE. THE MARK IS A STANDARD 2½" CAP STAMPED "090030A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090031	1/27/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	471,598.1547	0.0020
Easting (M)	462,393.7910	0.0020
Elevation (M)*		
Northing (SFT)	1,547,234.9459	
Easting (SFT)	1,517,036.9626	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	18	37.2733056	
Longitude	91	19	47.9668800	
Ellipsoid Height (M):	9.699			0.0190
Geoid Height (M):	-26.096			0.0190

Convergence Angle	0	22	29.9924736
Scale Factor	0.999997726		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

090031 TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 4.2 MILES TO DOC SEALE ROAD. GO SOUTH ON DOC SEALE ROAD 0.4 MILES TO STATION ON RIGHT. 43' SOUTHWEST OF C/L DOC SEALE ROAD. 23' EAST OF A FIELD ROAD. 101' SOUTH OF A POWER POLE. THE MARK IS A STANDARD 2½" CAP STAMPED "090031 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090031A	1/27/2021	ARDOT	CHICOT	US-82	020675

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)

Northing (M)	471,935.0206	0.0020
Easting (M)	461,990.5228	0.0020
Elevation (M)*		

Northing (SFT)	1,548,340.1468	
Easting (SFT)	1,515,713.9069	
Elevation (SFT)*		

Convergence Angle	0	22	21.3147444
Scale Factor			0.999997058
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	18	48.2927400
Longitude	91	20	3.4713888
Ellipsoid Height (M):	10.469		0.0180
Geoid Height (M):	-26.097		0.0180

Location Description

090031A TO REACH THE STATION MARK FROM THE JCT OF US-82 & SR-293 WEST OF LAKE VILLAGE, GO EAST ON US-82 4.2 MILES TO DOC SEALE ROAD. GO SOUTH ON DOC SEALE ROAD 0.1 MILES TO STATION ON RIGHT. 23' WEST OF C/L DOC SEALE ROAD. 58' SOUTH OF A POWER POLE. 92' NORTH OF A POWER POLE. THE MARK IS A STANDARD 2½" CAP STAMPED "090031A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM, MSGN

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS ARCM & ARMO AND ON 1ST ORDER NGS BM H 243

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090032	2/14/2023	ARDOT	CHICOT	65	020736

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	462,551.1227	0.0020
Easting (M)	470,534.2366	0.0020
Elevation (M)*		
Northing (SFT)	1,517,553.1417	
Easting (SFT)	1,543,744.4079	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	13	41.7839304	
Longitude	91	14	35.8677096	
Ellipsoid Height (M):	9.630			0.0050
Geoid Height (M):	-26.034			0.0050

Convergence Angle	0	25	24.6714726
Scale Factor	1.000016682		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 278 AND HWY 65 IN LAKE VILLAGE, HEAD SOUTH ON HWY 65 FOR 3.4 MILES TO T-BOY JAMES RD. HEAD EAST/LEFT ON T-BOY JAMES RD. FOR 0.65 MILES TO THE STATION ON THE LEFT. THE STATION IS 35.5FT EAST OF THE CENTER OF T-BOY JAMES ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090032 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	338	1.30	4.3
MK # 2	GUY WIRE	190	2.70	8.9
MK # 3				

AZ Mark Station	090032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHB
Ref Mon # 2	ARLV
Ref Mon # 3	ARMO, ARMG

Comments

STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090032A	2/14/2023	ARDOT	CHICOT	65	020736

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	462,555.1895	0.0020
Easting (M)	470,140.5765	0.0020
Elevation (M)*		

Northing (SFT)	1,517,566.4842	
Easting (SFT)	1,542,452.8747	
Elevation (SFT)*		

Convergence Angle	0	25	16.1630503
Scale Factor	1.000016667		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	13	42.0101148	
Longitude	91	14	51.0697176	
Ellipsoid Height (M):	9.098			0.0050
Geoid Height (M):	-26.026			0.0050

Location Description

TO REACH FROM THE JCT. OF HWY 278 AND HWY 65 IN LAKE VILLAGE, HEAD SOUTH ON HWY 65 FOR 3.4 MILES TO T-BOY JAMES RD. HEAD EAST/LEFT ON T-BOY JAMES RD. FOR 0.425 MILES TO THE STATION ON THE RIGHT. THE STATION IS 20.0FT E OF THE CENTER OF A GRAVEL FIELD ENTRANCE, AND 20.0FT S OF THE CENTER OF T-BOY JAMES ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090032A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	90	22.90	75.1
MK # 2				
MK # 3				

AZ Mark Station	090032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHB
Ref Mon # 2	ARLV
Ref Mon # 3	ARMG, ARMO

Comments

STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090033	2/14/2023	ARDOT	CHICOT	65	020737

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	448,327.7344	0.0020
Easting (M)	470,556.6531	0.0020
Elevation (M)*		

Northing (SFT)	1,470,888.5753	
Easting (SFT)	1,543,817.9527	
Elevation (SFT)*		

Convergence Angle	0	25	22.8860737
Scale Factor	1.000050350		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	6	0.1221264
Longitude	91	14	39.0576840
Ellipsoid Height (M):	6.956	0.0050	
Geoid Height (M):	-26.081	0.0050	

Location Description

TO REACH FROM THE JCT. OF HWY 65 AND HWY 8/E ARMSTRONG ST. IN EUDORA, HEAD SOUTH ON HWY 65 FOR 0.95 MILES TO HWY 8 EAST. HEAD EAST/LEFT ON HWY 8 EAST FOR 0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.6FT EAST OF THE CENTER LINE OF HWY 8 EAST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090033 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	090033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHB
Ref Mon # 2	ARLV
Ref Mon # 3	ARMG, ARMO

Comments

STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
090033A	2/14/2023	ARDOT	CHICOT	65	020737

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	448,474.2632	0.0020
Easting (M)	470,161.4567	0.0020
Elevation (M)*		
Northing (SFT)	1,471,369.3118	
Easting (SFT)	1,542,521.3792	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	6	4.9725036	
Longitude	91	14	54.2559768	
Ellipsoid Height (M):	7.552	0.0050		
Geoid Height (M):	-26.075	0.0050		

Convergence Angle	0	25	14.3797307
Scale Factor	1.000049971		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 65 AND HWY 8/E ARMSTRONG ST. IN EUDORA, HEAD SOUTH ON HWY 65 FOR 0.95 MILES TO HWY 8 EAST. HEAD EAST/LEFT ON HWY 8 EAST FOR 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.7FT E OF THE CENTER LINE OF HWY 8 EAST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "090033A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	314	47.20	154.9
MK # 2	FOC UTLITY MARKER	168	5.20	17.1
MK # 3	POWERPOLE	96	55.20	181.1

AZ Mark Station	090033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHB
Ref Mon # 2	ARLV
Ref Mon # 3	ARMG, ARMO

Comments

STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARMO & ARMG.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0-9-8-91	1/1/1991	MY CORPS OI	CRAIGHEAD	18	100308

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	173,999.2310	
Easting (M)	551,305.8760	
Elevation (M)*	72.419	
Northing (SFT)	570,862.4770	
Easting (SFT)	1,808,742.6948	
Elevation (SFT)*	237.595	

Convergence Angle	0	58	30.8767957
Scale Factor	0.999950140		
Elevation Adjust. Factor	0.9999886352		
Combined Adjust. Factor	0.9999387758		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	24.3488040
Longitude	90	19	26.5199232
Ellipsoid Height (M):	44.354		
Geoid Height (M):	-28.016		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 139 IN MONETTE, GO EAST 1.07 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.50 METERS NORTH OF THE CENTERLINE OF HIGHWAY 18, 0.80 METERS FROM WEST END OF BRIDGE, AND 0.49 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STARDARD US ARMY CORPS OF ENGINEERS BENCH MARK DISC STAMPED 0-9-8-91 SET IN TOP OF BRIDGE ABUTMENT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER VALVE	320	6.00	19.7
MK # 2	AHTD BENCH MARK	10	0.40	1.3
MK # 3	WEST END GUARD RAIL	280	23.33	76.5

AZ Mark Station	160023
Geodetic Azimuth	270 36 49
Grid Azimuth	269 38 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

Elevation based on levels by consultant for Job# 100567

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
10 DWB 1967	9/13/1995	USC&GS	CRAWFORD	59	040226

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	129,909.3420	
Easting (M)	186,218.2140	
Elevation (M)*	170.011	
Northing (SFT)	426,210.8995	
Easting (SFT)	610,950.9238	
Elevation (SFT)*	557.778	

Convergence Angle	-1	22	15.6072953
Scale Factor	0.999937543		
Elevation Adjust. Factor	0.9999733204		
Combined Adjust. Factor	0.9999108651		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	28	52.5036216
Longitude	94	21	21.8949840
Ellipsoid Height (M):	139.925		
Geoid Height (M):	-30.086		

Location Description

FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO NORTH ON HWY. 59 FOR 2.06 KM (1.28 MILES) TO THE STATION ON THE LEFT. THE STATION IS 58.0 METERS NORTH NORTHWEST OF OLD UNION TOWN ROAD, 12.96 METERS WEST OF THE CENTER OF HWY. 59 AND 1.5 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD TABLET SET IN A CONCRETE POST PROJECTING 4" AND STAMPED "10 DWB 1967 558". THE STATION IS A USC&GS BENCH MARK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER OF ROCK BUILDING	240	12.65	41.5
MK # 2	COMINATION POLE	25	1.70	5.6
MK # 3	NONE			

AZ Mark Station	10 DWB A
Geodetic Azimuth	177 00 01.7038
Grid Azimuth	178 22 17.3106

Area Reference Monuments (used for Processing)

Ref Mon # 1	92170001
Ref Mon # 2	FORT SMITH GIS NO. 103
Ref Mon # 3	GRASSY OFFSET

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
10 DWB AZ	9/13/1995	AHTD	CRAWFORD	59	040226

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	129,583.3581	
Easting (M)	186,227.4820	
Elevation (M)*	186.203	
Northing (SFT)	425,141.4007	
Easting (SFT)	610,981.3305	
Elevation (SFT)*	610.901	

Convergence Angle	-1	22	15.2133675
Scale Factor	0.999937636		
Elevation Adjust. Factor	0.9999707795		
Combined Adjust. Factor	0.9999084174		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	28	41.9359080
Longitude	94	21	21.2180148
Ellipsoid Height (M):	156.105		
Geoid Height (M):	-30.098		

Location Description

FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO NORTH ON HWY. 59 FOR 1.738 KM (1.08 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.65 METERS EAST OF THE CENTER OF HWY. 59, 0.70 METERS WEST OF A STEEL CABLE FENCE AND 0.65 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "10DWBA 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	4" STEEL GATE POST	160	12.29	40.3
MK # 2	12" PINE TREE	30	22.90	75.1
MK # 3	NONE			

AZ Mark Station	10 DWB 1967
Geodetic Azimuth	357 00 02.0967
Grid Azimuth	358 22 17.3106

Area Reference Monuments (used for Processing)

Ref Mon # 1	92170001
Ref Mon # 2	FORT SMITH GIS NO. 103
Ref Mon # 3	GRASSY OFFSET

Comments

THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "10 DWB 1967".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100001	8/1/1994	AHTD	CLARK	8	070063

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	576,676.0259	
Easting (M)	268,562.6780	
Elevation (M)*	175.043	
Northing (SFT)	1,891,977.9283	
Easting (SFT)	881,109.3861	
Elevation (SFT)*	574.287	

Convergence Angle	0	47	55.4138205
Scale Factor	0.999925610		
Elevation Adjust. Factor	0.9999725308		
Combined Adjust. Factor	0.9998981428		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	15	4.8073824
Longitude	93	25	37.5052116
Ellipsoid Height (M):	147.097		
Geoid Height (M):	-27.946		

Location Description

FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO SOUTHEAST ON HWY. 8 FOR 3.541 KM (2.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.40 METERS NORTH OF THE CENTERLINE OF HWY. 8 AND 1.15 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "100001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	196	18.20	59.7
MK # 2	24" METAL PIPE WITH HEADWALL	114	35.00	114.8
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	100001A
Geodetic Azimuth	291 00 15.5305
Grid Azimuth	291 48 10.93034

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARKAPORT
Ref Mon # 2	PLEASANT
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100001A	8/1/1994	AHTD	CLARK	8	070063

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	576,766.7769	
Easting (M)	268,335.8200	
Elevation (M)*	177.101	
Northing (SFT)	1,892,275.6672	
Easting (SFT)	880,365.1028	
Elevation (SFT)*	581.039	

Convergence Angle	0	48	0.4037997
Scale Factor			0.999925662
Elevation Adjust. Factor			0.9999722079
Combined Adjust. Factor			0.9998978719

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	15	7.6498020	
Longitude	93	25	46.4208132	
Ellipsoid Height (M):	149.151			
Geoid Height (M):	-27.950			

Location Description

FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO SOUTHEAST ON HWY. 8 FOR 3.299 KM (2.05 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.10 METERS NORTH OF THE CENTERLINE OF HWY. 8 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	24" PINE TREE	195	23.60	77.4
MK # 2	POWER POLE	285	7.05	23.1
MK # 3	TELEPHONE JUNCTION BOX	290	8.60	28.2

AZ Mark Station	100001
Geodetic Azimuth	111 00 10.51254
Grid Azimuth	111 48 10.93034

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARKAPORT
Ref Mon # 2	PLEASANT
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100003	9/29/1997	AHTD	CLARK	8	070064

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	571,879.7250	
Easting (M)	277,988.6380	
Elevation (M)*	174.930	
Northing (SFT)	1,876,242.0644	
Easting (SFT)	912,034.3898	
Elevation (SFT)*	573.916	

Convergence Angle	0	44	27.8718196
Scale Factor	0.999923107		
Elevation Adjust. Factor	0.9999725485		
Combined Adjust. Factor	0.9998956576		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	12	33.2617140
Longitude	93	19	26.6896776
Ellipsoid Height (M):	147.174		
Geoid Height (M):	-27.729		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO WEST ON STATE HIGHWAY 8 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.406 METERS EAST-NORTHEAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.71 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100003 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKER	75	0.82	2.7
MK # 2	CONCRETE R/W MARKER	254	23.21	76.1
MK # 3	NBC IN 0.26 METER GUM TREE	294	28.45	93.4

AZ Mark Station	100003A
Geodetic Azimuth	150 04 40.87165
Grid Azimuth	150 49 08.75473

Area Reference Monuments (used for Processing)

Ref Mon # 1	FRANKLIN 2
Ref Mon # 2	C 59
Ref Mon # 3	100002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100003A	9/29/1929	AHTD	CLARK	8	070064

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	571,477.5190	
Easting (M)	278,213.2480	
Elevation (M)*	161.910	
Northing (SFT)	1,874,922.4936	
Easting (SFT)	912,771.2978	
Elevation (SFT)*	531.200	

Convergence Angle	0	44	22.8475652
Scale Factor	0.999922918		
Elevation Adjust. Factor	0.9999745917		
Combined Adjust. Factor	0.9998975116		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	12	20.3027940
Longitude	93	19	17.7128364
Ellipsoid Height (M):	134.166		
Geoid Height (M):	-27.720		

Location Description

TO REACH THE STTION FROM THE JUNCTION OF STATE HIGWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO WEST ON STATE HIGHWAY 8 FOR 4.02 KM (2.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.804 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 8 AND 0.62 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 0.25 METER PINE	203	25.13	82.4
MK # 2	NBC IN 0.25 METER WHITE OAK	245	27.92	91.6
MK # 3	NBC IN 0.28 METER RED OAK	265	35.48	116.4

AZ Mark Station	100003
Geodetic Azimuth	330 04 45.91834
Grid Azimuth	330 49 08.75473

Area Reference Monuments (used for Processing)

Ref Mon # 1	FRANKLIN 2
Ref Mon # 2	C 59
Ref Mon # 3	100002

Comments

Elevation by 3 wire run on 12/16/97 by S5113

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100004	9/29/1997	AHTD	CLARK	53	070064

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	568,535.2209	
Easting (M)	281,814.9060	
Elevation (M)*	168.456	
Northing (SFT)	1,865,269.3039	
Easting (SFT)	924,587.7374	
Elevation (SFT)*	552.676	

Convergence Angle	0	43	3.3005847
Scale Factor	0.999921664		
Elevation Adjust. Factor	0.9999735645		
Combined Adjust. Factor	0.9998952305		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	10	46.2999864
Longitude	93	16	55.5861540
Ellipsoid Height (M):	140.768		
Geoid Height (M):	-27.628		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO SOUTH ON STATE HIGHWAY 53 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.938 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 53, 11.833 METERS NORTHWEST OF THE CENTER OF A GRAVEL ROAD (CALDWELL ROAD) AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "100004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	R/W NAIL	294	4.94	16.2
MK # 2	SOUTH GATE POST (STEEL)	79	63.94	209.8
MK # 3	NORTH GATE POST (STEEL)	217	75.30	247.1

AZ Mark Station	100004A
Geodetic Azimuth	341 01 42.05428
Grid Azimuth	341 44 45.34956

Area Reference Monuments (used for Processing)

Ref Mon # 1	FRANKLIN 2
Ref Mon # 2	C 59
Ref Mon # 3	100002

Comments

Elevation by 3 wire run on 12/16/97 by S5113

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100004A	9/29/1997	AHTD	CLARK	53	070064

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	568,911.4929	
Easting (M)	281,690.8000	
Elevation (M)*	145.507	
Northing (SFT)	1,866,503.7896	
Easting (SFT)	924,180.5663	
Elevation (SFT)*	477.384	

Convergence Angle	0	43	6.1161346
Scale Factor			0.999921815
Elevation Adjust. Factor			0.9999771657
Combined Adjust. Factor			0.9998989825

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	10	58.4611032
Longitude	93	17	0.6167004
Ellipsoid Height (M):	117.791		
Geoid Height (M):	-27.635		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 8 AND STATE HIGHWAY 53 SOUTH, LOCATED ABOUT 20.92 KM (13.00 MI) WEST OF ARKADELPHIA, GO SOUTH ON STATE HIGHWAY 53 FOR 1.21 KM (0.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 53 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "100004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	100004
Geodetic Azimuth	161 01 39.22807
Grid Azimuth	161 44 45.34956

Area Reference Monuments (used for Processing)

Ref Mon # 1	FRANKLIN 2
Ref Mon # 2	C 59
Ref Mon # 3	100002

Comments

Elevation by 3 wire run on 12/16/97 by S5113

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100005A (P.1)	4/26/2000	AHTD	CLARK	30	070442

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	561,179.5285	0.0020
Easting (M)	299,064.3100	0.0020
Elevation (M)*	94.572	
Northing (SFT)	1,841,136.5031	
Easting (SFT)	981,180.1571	
Elevation (SFT)*	310.274	

Convergence Angle	0	36	44.5743489
Scale Factor	0.999919455		
Elevation Adjust. Factor	0.9999851588		
Combined Adjust. Factor	0.9999046150		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	6	54.0704808	
Longitude	93	5	38.9155488	
Ellipsoid Height (M):	67.751			0.0040
Geoid Height (M):	-26.837			0.0040

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAYS 51 AND 8 (EXIT 73), LOCATED ON THE WEST SIDE OF ARKADELPHIA, GO EAST ON STATE HIGHWAYS 51 AND 8 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF RED HILL ROAD ON THE RIGHT, GO RIGHT SOUTH ON RED HILL ROAD FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.40 METERS EAST-SOUTHEAST OF THE CENTER OF THE I-30 OFF RAMP, 6.90 METERS WEST-NORTHWEST OF THE CENTER OF RED HILL ROAD AND 1.99 METERS WEST-NORTHWEST OF A WITNESS POST. THE SHOT DISTANCE IS 396.409 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARHP, ARLR

Comments

******NOTE: SEE 100005A (P.2) FOR SUPERCEDED POSITION*****
ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100005A (P.2)	4/26/2000	AHTD	CLARK	30	070240,070363,070364

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	561,179.5361	
Easting (M)	299,064.2913	
Elevation (M)*	94.578	
Northing (SFT)	1,841,136.5280	
Easting (SFT)	981,180.0957	
Elevation (SFT)*	310.296	

Convergence Angle	0	36	44.5747579
Scale Factor			0.999919455
Elevation Adjust. Factor			0.9999851578
Combined Adjust. Factor			0.9999046140

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	34	6	54.0710784
Longitude	93	5	38.9157468
Ellipsoid Height:			
Grid Northing (Meters)			561,179.5470
Grid Easting (Meters)			299,064.3051

Vertical Determined By:	SEE COMMENTS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	6	54.0707220	
Longitude	93	5	38.9162796	
Ellipsoid Height (M):	67.805			
Geoid Height (M):	-26.776			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAYS 51 AND 8 (EXIT 73), LOCATED ON THE WEST SIDE OF ARKADELPHIA, GO EAST ON STATE HIGHWAYS 51 AND 8 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF RED HILL ROAD ON THE RIGHT, GO RIGHT SOUTH ON RED HILL ROAD FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.40 METERS EAST-SOUTHEAST OF THE CENTER OF THE I-30 OFF RAMP, 6.90 METERS WEST-NORTHWEST OF THE CENTER OF RED HILL ROAD AND 1.99 METERS WEST-NORTHWEST OF A WITNESS POST. THE SHOT DISTANCE IS 396.409 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	300001
Ref Mon # 3	200007

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136. This elevation supersedes a previous elevation of 310.2320'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100006	1/7/2003	AHTD	CLARK	26	070245

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	559,401.9309	
Easting (M)	291,076.8870	
Elevation (M)*	94.473	
Northing (SFT)	1,835,304.5016	
Easting (SFT)	954,974.7534	
Elevation (SFT)*	309.950	

Convergence Angle	0	39	38.5680588
Scale Factor	0.999919087		
Elevation Adjust. Factor	0.9999851744		
Combined Adjust. Factor	0.9999042626		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	5	53.4980652
Longitude	93	10	49.7903124
Ellipsoid Height (M):	67.613		
Geoid Height (M):	-26.778		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 26 LOCATED IN HOLLYWOOD, GO EAST ON STATE HIGHWAY 26 FOR 4.05 MILES TO THE STATION ON THE RIGHT ON TOP OF A HIGH BANK. THE STATION IS 13.95 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 26 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	279	13.60	44.6
MK # 2				
MK # 3				

AZ Mark Station	100006A
Geodetic Azimuth	280 23 28
Grid Azimuth	281 03 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOP1
Ref Mon # 2	AHTD MON1
Ref Mon # 3	AHTD LROC

Comments

ELEV BY 3WIRE BY S5101 FROM NGS X137

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100006A	1/7/2003	AHTD	CLARK	26	070245

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	559,502.6270	
Easting (M)	290,561.3390	
Elevation (M)*	83.840	
Northing (SFT)	1,835,634.8687	
Easting (SFT)	953,283.3264	
Elevation (SFT)*	275.065	

Convergence Angle	0	39	49.8506171
Scale Factor	0.999919103		
Elevation Adjust. Factor	0.9999868429		
Combined Adjust. Factor	0.9999059470		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	5	56.5727460
Longitude	93	11	9.9488724
Ellipsoid Height (M):	56.964		
Geoid Height (M):	-26.784		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 26 LOCATED IN HOLLYWOOD, GO EAST ON STATE HIGHWAY 26 FOR 3.72 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 8.75 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 26, AND 1.95 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100006A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF CORRIGATED METAL PIPE	304	5.50	18.0
MK # 2	WOOD CORNER POST	260	6.30	20.7
MK # 3				

AZ Mark Station	100006
Geodetic Azimuth	100 23 16
Grid Azimuth	101 03 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOP1
Ref Mon # 2	AHTD MON1
Ref Mon # 3	AHTD LROC

Comments

ELEV BY 3WIRE BY S5101 FROM NGS X137

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100007	1/7/2003	AHTD	CLARK	26	070245,070237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	559,981.1410	
Easting (M)	285,970.6280	
Elevation (M)*	80.334	
Northing (SFT)	1,837,204.7934	
Easting (SFT)	938,221.9687	
Elevation (SFT)*	263.561	

Convergence Angle	0	41	30.2161965	
Scale Factor	0.999919180			
Elevation Adjust. Factor	0.9999873932			
Combined Adjust. Factor	0.9999065742			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	6	10.3403016	
Longitude	93	14	9.2721696	
Ellipsoid Height (M):	53.443			
Geoid Height (M):	-26.840			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 26 LOCATED IN HOLLYWOOD, GO EAST ON STATE HIGHWAY 26 FOR 0.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 26 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100007 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	90	3.30	10.8
MK # 2	EAST END REINFORCED CONCRETE PIPE	273	16.00	52.5
MK # 3				

AZ Mark Station	100007A
Geodetic Azimuth	289 04 52
Grid Azimuth	289 46 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOP1
Ref Mon # 2	AHTD MON1
Ref Mon # 3	AHTD LROC

Comments

ELEV BY 3WIRE BY S5101 FROM NGS X137

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100007A	1/7/2003	AHTD	CLARK	26	070245,070237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	560,123.3720	
Easting (M)	285,574.9760	
Elevation (M)*	75.368	
Northing (SFT)	1,837,671.4296	
Easting (SFT)	936,923.9004	
Elevation (SFT)*	247.269	

Convergence Angle	0	41	38.8933776
Scale Factor	0.999919206		
Elevation Adjust. Factor	0.9999881725		
Combined Adjust. Factor	0.9999073794		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	14.8010796
Longitude	93	14	24.7756992
Ellipsoid Height (M):	48.476		
Geoid Height (M):	-26.846		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 26 LOCATED IN HOLLYWOOD, GO EAST ON STATE HIGHWAY 26 FOR 0.47 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 26, 4.60 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "100007A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	100007
Geodetic Azimuth	109 04 43
Grid Azimuth	109 46 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOP1
Ref Mon # 2	AHTD MON1
Ref Mon # 3	AHTD LROC

Comments

ELEV BY 3WIRE BY S5101 FROM NGS X137

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100008	7/29/2003	AHTD	CLARK	26	070237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	554,874.9730
Easting (M)	270,681.0600
Elevation (M)*	
Northing (SFT)	1,820,452.3073
Easting (SFT)	888,059.4444
Elevation (SFT)*	
Convergence Angle	0 47 2.5504530
Scale Factor	0.999918534
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	3	18.2304432
Longitude	93	24	3.0541716
Ellipsoid Height (M):			
Geoid Height (M):	-26.936		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 1.7 MILES TO THE STATION ON THE LEFT. NORTHWEST 9.7 METERS OF THE CENTERLINE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. EAST OF A GRAVEL DRIVE 14.2 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100008 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	242	7.40	24.3
MK # 2	GUY	319	2.30	7.5
MK # 3				

AZ Mark Station	100008A
Geodetic Azimuth	220 57 57
Grid Azimuth	221 44 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	HOPE, DQUA
Ref Mon # 3	100007,100007A

Comments

ELEV BY 3WR FROM NGS X 137 - RV 542

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100008A	7/29/2003	AHTD	CLARK	26	070237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	554,650.3910
Easting (M)	270,480.6150
Elevation (M)*	
Northing (SFT)	1,819,715.4911
Easting (SFT)	887,401.8177
Elevation (SFT)*	
Convergence Angle	0 47 6.8576980
Scale Factor	0.999918522
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	3	10.8526644
Longitude	93	24	10.7499312
Ellipsoid Height (M):	64.864		
Geoid Height (M):	-26.936		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 1.5 MILES TO THE STATION ON THE LEFT. NORTHWEST 9.0 METERS OF THE CENTERLINE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100008A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100008
Geodetic Azimuth	40 57 52
Grid Azimuth	41 44 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	HOPE, DQUA
Ref Mon # 3	100007,100007A

Comments

ELEV BY 3WR FROM NGS X 137 - RV 542

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100009	7/29/2003	AHTD	CLARK	26	070237

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	556,574.6640	
Easting (M)	272,411.9140	
Elevation (M)*		
Northing (SFT)	1,826,028.7101	
Easting (SFT)	893,738.0878	
Elevation (SFT)*		

Convergence Angle	0	46	25.2779023
Scale Factor	0.999918668		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	4	14.1566196
Longitude	93	22	56.4592620
Ellipsoid Height (M):	93.383		
Geoid Height (M):	-26.937		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 3.2 MILES TO THE STATION ON THE RIGHT. SOUTHEAST 8.0 METERS OF THE CENTERLINE AND 0.50 METERS NORTHWEST OF A WITNESS POST. SOUTHWEST 19.7 METERS OF SMYRNA GRAVEL ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100009 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	214	3.40	11.2
MK # 2	FIRE HYDRANDT	134	11.90	39.0
MK # 3	CONC WPA MARKER	237	3.70	12.1

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	HOPE, DQUA
Ref Mon # 3	100007,100007A

Comments

ELEV BY 3WR FROM NGS X 137 - RV 542. SINGLE POINT SET FOR RTK COLLECTION. NO AZIMUTH SET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100010	7/29/2003	AHTD	CLARK	26	070237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	557,794.2049
Easting (M)	277,661.2870
Elevation (M)*	
Northing (SFT)	1,830,029.8206
Easting (SFT)	910,960.4058
Elevation (SFT)*	
Convergence Angle	0 44 31.0406738
Scale Factor	0.999918816
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	4	55.9897104
Longitude	93	19	32.3514732
Ellipsoid Height (M):	75.389		
Geoid Height (M):	-26.906		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 6.6 MILES TO THE STATION ON THE RIGHT. SOUTHEAST 10.4 METERS OF THE CENTERLINE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100010 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100010A
Geodetic Azimuth	52 05 10
Grid Azimuth	52 49 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	HOPE, DQUA
Ref Mon # 3	100007,100007A

Comments

ELEV BY 3WR FROM NGS X 137 - RV 542

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100010A	7/29/2003	AHTD	CLARK	26	070237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	558,020.5790
Easting (M)	277,959.8270
Elevation (M)*	
Northing (SFT)	1,830,772.5163
Easting (SFT)	911,939.8657
Elevation (SFT)*	
Convergence Angle	0 44 24.5871738
Scale Factor	0.999918847
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	5	3.4619136
Longitude	93	19	20.8209972
Ellipsoid Height (M):	74.242		
Geoid Height (M):	-26.906		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 6.85 MILES TO THE STATION ON THE RIGHT. SOUTH 11.5 METERS OF THE CENTERLINE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100010A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	222	6.80	22.3
MK # 2	POWER POLE	60	9.40	30.8
MK # 3				

AZ Mark Station	100010
Geodetic Azimuth	232 05 17
Grid Azimuth	232 49 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	HOPE, DQUA
Ref Mon # 3	100007,100007A

Comments

ELEV BY 3WR FROM NGS X 137 - RV 542

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100011	7/29/2003	AHTD	CLARK	26	070237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	559,019.1120
Easting (M)	280,989.5770
Elevation (M)*	
Northing (SFT)	1,834,048.5366
Easting (SFT)	921,879.9705
Elevation (SFT)*	
Convergence Angle	0 43 18.7183066
Scale Factor	0.999919002
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 5 37.1235660
Longitude	93 17 23.1330156
Ellipsoid Height (M):	50.876
Geoid Height (M):	-26.887

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 8.9 MILES TO THE STATION ON THE LEFT. NORTH 12.2 METERS OF THE CENTERLINE AND 0.50 METERS SOUTH OF A WITNESS POST, AND 11.0 METERS WEST OF A GRAVEL DRIVE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100011 2003" ON TOP OF A 0.62 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	HOPE, DQUA
Ref Mon # 3	100007,100007A

Comments

ELEV BY 3WR FROM NGS X 137 - RV 542. SINGLE POINT SET FOR RTK COLLECTION. NO AZIMUTH SET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100012	7/30/2003	AHTD	CLARK	7	070240

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	561,149.4360	
Easting (M)	305,150.2880	
Elevation (M)*	56.770	
Northing (SFT)	1,841,037.7746	
Easting (SFT)	1,001,147.2365	
Elevation (SFT)*	186.253	

Convergence Angle	0	34	31.6508396
Scale Factor	0.999919462		
Elevation Adjust. Factor	0.9999910910		
Combined Adjust. Factor	0.9999105537		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	55.1413836
Longitude	93	1	41.4209604
Ellipsoid Height (M):	30.077		
Geoid Height (M):	-26.631		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7, 8, AND 51, SOUTHEAST OF ARKADELPHIA, GO SOUTH ON HIGHWAY 7, 0.05 MILES TO THE STATION ON THE LEFT. NORTHEAST 11.5 METERS OF THE CENTERLINE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "100012 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE GATE POST	339	26.30	86.3
MK # 2				
MK # 3				

AZ Mark Station	100012A
Geodetic Azimuth	150 51 35
Grid Azimuth	151 26 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE, MEM2
Ref Mon # 2	100005A
Ref Mon # 3	DQUA, FRANKLIN2

Comments

Digital Levels were ran by crew s5101 in March 2010 from NGS 2nd order marks Y 136 and 246 during Job 070240.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100012A	7/30/2003	AHTD	CLARK	7	070240

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	560,560.2470	
Easting (M)	305,471.0540	
Elevation (M)*	55.692	
Northing (SFT)	1,839,104.7437	
Easting (SFT)	1,002,199.6163	
Elevation (SFT)*	182.715	

Convergence Angle	0	34	24.5165296
Scale Factor	0.999919337		
Elevation Adjust. Factor	0.9999912603		
Combined Adjust. Factor	0.9999105980		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	36.1233360
Longitude	93	1	28.6740804
Ellipsoid Height (M):	29.021		
Geoid Height (M):	-26.623		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7, 8, AND 51, SOUTHEAST OF ARKADELPHIA, GO SOUTH ON HIGHWAY 7 0.40 MILES TO THE STATION ON THE RIGHT. 9.8 METERS WEST OF THE CENTERLINE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100012A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GATE POST	308	21.60	70.9
MK # 2	POWER POLE	305	21.20	69.6
MK # 3	GUY	300	16.90	55.4

AZ Mark Station	100012
Geodetic Azimuth	330 51 42
Grid Azimuth	331 26 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE, MEM2
Ref Mon # 2	100005A
Ref Mon # 3	DQUA, FRANKLIN2

Comments

Digital Levels were ran by crew s5101 in March 2010 from NGS 2nd order marks Y 136 and 246 during Job 070240.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100013	7/14/2004	AHTD	CLARK	53	R30011

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	528,043.8131	
Easting (M)	294,544.7850	
Elevation (M)*	54.890	
Northing (SFT)	1,732,423.7435	
Easting (SFT)	966,352.3488	
Elevation (SFT)*	180.085	

Convergence Angle	0	38	15.2259732
Scale Factor	0.999925706		
Elevation Adjust. Factor	0.9999913860		
Combined Adjust. Factor	0.9999170927		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	48	57.0187944
Longitude	93	8	20.8829112
Ellipsoid Height (M):	28.350		
Geoid Height (M):	-26.501		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND i24, SOUTHWEST OF GURDON, GO NORTH ON HIGHWAY 53 3.05 MILES TO THEi STATION ON THE LEFT, AT THE NORTHWEST END OF THE BRIDGE ACROSS iTHE LITTLE MISSOURI RIVER, NORTHWEST 5.60 METERS OF THE iCENTERLINE OF THE HIGHWAY AND NORTHWEST 0.90 METERS OF A WITNESS iPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100013 i2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE iGROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST END OF BRIDGE	212	2.50	8.2
MK # 2	1ST CONC GUARD RAIL POST	70	2.40	7.9
MK # 3				

AZ Mark Station	100013A
Geodetic Azimuth	70 49 49
Grid Azimuth	71 28 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	AHTD HOPE, LROC
Ref Mon # 3	DQUA

Comments

3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011on Feb 2005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100013A	7/14/2004	AHTD	CLARK	53	R30011

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	528,130.4741	
Easting (M)	294,803.3060	
Elevation (M)*	53.430	
Northing (SFT)	1,732,708.0638	
Easting (SFT)	967,200.5131	
Elevation (SFT)*	175.296	

Convergence Angle	0	38	9.6206799
Scale Factor			0.999925653
Elevation Adjust. Factor			0.9999916151
Combined Adjust. Factor			0.9999172687

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	48	59.9247648
Longitude	93	8	10.8679272
Ellipsoid Height (M):	26.904		
Geoid Height (M):	-26.499		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND ì24, SOUTHWEST OF GURDON, GO NORTH ON HIGHWAY 53 3.25 MILES TO ìTHE STAION ON THE LEFT, 5.80 METERS NORTH OF THE CENTERLINE OF ìTHE HIGHWAY AND SOUTH 7.40 METERS OF A WITNESS POST. THE STATIONì MARK IS A STANDARD 64mm CAP STAMPED "100013A 2004" ON TOP OF A ì1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100013
Geodetic Azimuth	250 49 55
Grid Azimuth	251 28 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	AHTD HOPE, LROC
Ref Mon # 3	DQUA

Comments

3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011on Feb 2005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100014	2/1/2005	AHTD	CLARK	53	070265

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	543,169.3210	
Easting (M)	292,296.7920	
Elevation (M)*	71.608	
Northing (SFT)	1,782,048.0140	
Easting (SFT)	958,977.0584	
Elevation (SFT)*	234.932	

Convergence Angle	0	39	7.8963830
Scale Factor	0.999919499		
Elevation Adjust. Factor	0.9999887626		
Combined Adjust. Factor	0.9999082625		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	57	7.1142336
Longitude	93	9	54.9891936
Ellipsoid Height (M):	44.981		
Geoid Height (M):	-26.625		

Location Description

T REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON, GO NORTH ON HWY-53 FOR 1.50 MILES TO THE STATION ON THE LEFT. 10.40 METERS SOUTHWEST OF THE CENTER OF HWY-53, 6.40 METERS NORTHWEST OF THE CENTER OF A GRAVEL DRIVE IN A POWERLINE RIGHT OF WAY AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100014 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	121	12.40	40.7
MK # 2	TELEPHONE RISER	124	14.15	46.4
MK # 3				

AZ Mark Station	100014A
Geodetic Azimuth	319 43 11
Grid Azimuth	320 22 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	C.O.R.S. HOPE
Ref Mon # 2	LROC
Ref Mon # 3	G 23, 100007

Comments

3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS Q151

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100014A	2/1/2005	AHTD	CLARK	53	070265

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	543,553.2660	
Easting (M)	291,978.8490	
Elevation (M)*	69.672	
Northing (SFT)	1,783,307.6735	
Easting (SFT)	957,933.9404	
Elevation (SFT)*	228.582	

Convergence Angle	0	39	14.9223929
Scale Factor			0.999919416
Elevation Adjust. Factor			0.9999890663
Combined Adjust. Factor			0.9999084832

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	57	19.4578632
Longitude	93	10	7.5425736
Ellipsoid Height (M):	43.119		
Geoid Height (M):	-26.631		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON GO NORTH ON HWY-53 FOR 1.8 MILES TO THE STATION ON THE LEFT. 9.80 METERS SOUTHWEST OF THE CENTER OF HWY-53, 27.6 METERS SOUTHEAST OF THE CENTER OF COLLINS ROAD, 21.7 METERS NORTHWEST OF THE CENTER OF A GRAVEL DRIVE AND 0.20 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 100014A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	338	2.35	7.7
MK # 2	COMBINATION POLE	140	10.10	33.1
MK # 3				

AZ Mark Station	100014
Geodetic Azimuth	139 43 04
Grid Azimuth	140 22 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORS HOPE
Ref Mon # 2	LROC
Ref Mon # 3	G 23, 100007

Comments

3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS Q151

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100015	2/1/2005	AHTD	CLARK	53	070265, 070573

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	548,222.1854	0.0030
Easting (M)	290,627.2679	0.0030
Elevation (M)*	72.650	
Northing (SFT)	1,798,625.6199	
Easting (SFT)	953,499.6281	
Elevation (SFT)*	238.352	

Convergence Angle	0	39	45.5621650
Scale Factor	0.999918678		
Elevation Adjust. Factor	0.9999885990		
Combined Adjust. Factor	0.9999072779		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	59	50.4866040
Longitude	93	11	2.2873056
Ellipsoid Height:	45.961		
Grid Northing (Meters)	548,222.1741		
Grid Easting (Meters)	290,627.2520		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	59	50.4869784	
Longitude	93	11	2.2866900	
Ellipsoid Height (M):	45.807			0.0120
Geoid Height (M):	-26.830			0.0120

Location Description

THE STATION IS AT THE JUNCTION OF HIGHWAY 53 AND INTERSTATE 40 NEAR GURDON NEAR THE NORTHEAST CORNER OF THE INTERSTATE OVERPASS BRIDGE. 5.85 METERS EAST OF THE CENTER OF HWY-53 AND 0.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100015 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF BRIDGE END	185	2.60	8.5
MK # 2	CONCRETE HEADWALL AND DRAIN	350	6.30	20.7
MK # 3				

AZ Mark Station	100015A
Geodetic Azimuth	216 21 09
Grid Azimuth	217 00 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (C.O.R.S. HOPE)
Ref Mon # 2	ARGS (LROC)
Ref Mon # 3	ARHP (G 23, 100007)

Comments

3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151
**********SUPERCEDED GEOID HT. WAS -26.690m
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100015A	2/1/2005	AHTD	CLARK	I 40	070265, 070573

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	547,660.8653	0.0030
Easting (M)	290,204.0369	0.0030
Elevation (M)*	75.474	
Northing (SFT)	1,796,784.0222	
Easting (SFT)	952,111.0777	
Elevation (SFT)*	247.617	

Convergence Angle	0	39	54.6504273
Scale Factor	0.999918739		
Elevation Adjust. Factor	0.9999881559		
Combined Adjust. Factor	0.9999068958		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	59	32.1094464
Longitude	93	11	18.5248824
Ellipsoid Height:	48.842		
Grid Northing (Meters)	547,660.8541		
Grid Easting (Meters)	290,204.0320		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	59	32.1098136	
Longitude	93	11	18.5246988	
Ellipsoid Height (M):	48.635			0.0120
Geoid Height (M):	-26.828			0.0120

Location Description

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 40 AND STATE HIGHWAY 53 NEAR GURDON, GO WEST ON INTERSTATE 40 TO THE STATION IN THE MEDIAN. 8.60 METERS SOUTHEAST OF THE EDGE OF THE WEST BOUND LANE, 7.05 METERS NORTHWEST OF THE EDGE OF THE EAST BOUND LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 100015A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	100015
Geodetic Azimuth	036 21 00
Grid Azimuth	037 00 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (C.O.R.S. HOPE)
Ref Mon # 2	ARGS (LROC)
Ref Mon # 3	ARHP (G 23, 100007)

Comments

3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151
**********SUPERCEDED GEOID HT. WAS -26.688m
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100016	2/1/2005	AHTD	CLARK	53	070265

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	551,004.1180	
Easting (M)	288,626.1200	
Elevation (M)*	65.483	
Northing (SFT)	1,807,752.6771	
Easting (SFT)	946,934.1954	
Elevation (SFT)*	214.837	

Convergence Angle	0	40	29.9205979
Scale Factor			0.999918492
Elevation Adjust. Factor			0.9999897238
Combined Adjust. Factor			0.9999082166

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	1	20.0178300
Longitude	93	12	21.5419536
Ellipsoid Height (M):	38.748		
Geoid Height (M):	-26.733		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 IN HOLLYWOOD GO SOUTH ON HWY-53 FOR 3.40 MILES TO THE STATION ON THE LEFT. 13.60 METERS EAST OF THE CENTER OF HWY-53 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 100016 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF CULVERT	280	32.70	107.3
MK # 2				
MK # 3				

AZ Mark Station	100016A
Geodetic Azimuth	127 00 11
Grid Azimuth	127 40 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	C.O.R.S. HOPE
Ref Mon # 2	LROC
Ref Mon # 3	G 23, 100007

Comments

3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100016A	2/1/2005	AHTD	CLARK	53	070265

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	550,766.1630	
Easting (M)	288,934.2400	
Elevation (M)*	63.809	
Northing (SFT)	1,806,971.9864	
Easting (SFT)	947,945.0857	
Elevation (SFT)*	209.347	

Convergence Angle	0	40	23.1377647
Scale Factor			0.999918501
Elevation Adjust. Factor			0.9999899864
Combined Adjust. Factor			0.9999084882

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	1	12.4125492
Longitude	93	12	9.4230576
Ellipsoid Height (M):	37.099		
Geoid Height (M):	-26.727		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HIGHWAY 53 FOR 3.70 MILES TO THE STATION ON THE RIGHT. 11.70 METERS SOUTHWEST OF THE CENTER OF HWY-53 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "100016A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	100016
Geodetic Azimuth	307 00 18
Grid Azimuth	307 40 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	C.O.R.S. HOPE
Ref Mon # 2	LROC
Ref Mon # 3	G 23, 100007

Comments

3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS M 151

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100017	2/1/2005	AHTD	CLARK	51	070265

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	554,490.4730	
Easting (M)	284,987.7730	
Elevation (M)*	70.309	
Northing (SFT)	1,819,190.8268	
Easting (SFT)	934,997.3853	
Elevation (SFT)*	230.673	

Convergence Angle	0	41	50.2188550
Scale Factor	0.999918523		
Elevation Adjust. Factor	0.9999889663		
Combined Adjust. Factor	0.9999074902		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	3	11.7541908
Longitude	93	14	45.0109428
Ellipsoid Height (M):	43.509		
Geoid Height (M):	-26.801		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HWY-51 FOR 0.10 MILES TO THE STATION ON THE LEFT IN FRONT OF THE TRINITY UNITED METHODIST CHURCH. 8.20 METERS SOUTHEAST OF THE CENTER OF HIGHWAY 51. THERE IS NO WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100017 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	189	5.20	17.1
MK # 2	SIGN	194	5.40	17.7
MK # 3	SOUTHEAST CORNER OF A SIDEWALK	103	16.90	55.4

AZ Mark Station	100017A
Geodetic Azimuth	236 06 37
Grid Azimuth	236 48 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	C.O.R.S. HOPE
Ref Mon # 2	LROC
Ref Mon # 3	G 23, 100007

Comments

3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS G 151

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100017A	2/1/2005	AHTD	CLARK	51	070265

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	554,315.5580	
Easting (M)	284,720.3980	
Elevation (M)*	69.812	
Northing (SFT)	1,818,616.9599	
Easting (SFT)	934,120.1724	
Elevation (SFT)*	229.042	

Convergence Angle	0	41	56.0073519
Scale Factor	0.999918515		
Elevation Adjust. Factor	0.9999890443		
Combined Adjust. Factor	0.9999075602		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	3	5.9715792
Longitude	93	14	55.3532568
Ellipsoid Height (M):	43.123		
Geoid Height (M):	-26.802		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 53 AND 51 SOUTH OF HOLLYWOOD GO SOUTH ON HWY-51 FOR 0.40 MILES TO THE STATION ON THE RIGHT. 12.70 METERS NORTHWEST OF THE CENTER OF HWY-51 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100017A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	024	36.90	121.1
MK # 2				
MK # 3				

AZ Mark Station	100017
Geodetic Azimuth	056 06 31
Grid Azimuth	056 48 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	C.O.R.S. HOPE
Ref Mon # 2	LROC
Ref Mon # 3	G 23, 100007

Comments

3-wire elevation ran by S5108 in Feb 2005 in Job 070265 from NGS G 151

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100018	10/26/2005	AHTD	CLARK	26	070294

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	556,136.9490
Easting (M)	297,026.9920
Elevation (M)*	
Northing (SFT)	1,824,592.6402
Easting (SFT)	974,496.0563
Elevation (SFT)*	
Convergence Angle	0 37 27.8684644
Scale Factor	0.999918655
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 4 9.6979764
Longitude	93 6 56.2691952
Ellipsoid Height (M):	70.955
Geoid Height (M):	-26.689

Location Description

T0 REACH THE STATION MARK FORM THE JUNCTION OF I 30 AND STATE HIGHWAY 26, NORTHWEST OF GUM SPRINGS, GO EAST ON STATE HIGHWAY 26 0.3 MILES TO THE STATION ON THE ,LEFT, SOUTHEAST 11.0 METERS OF A CONCRETE DRIVE, NORTHEAST 17.35 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100018 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN BELOW THE GROUND LEVEL.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	24" RCP WITH HEADWALL	203	8.30	27.2
MK # 2	FIRE HYDRANDT	330	18.55	60.9
MK # 3				

AZ Mark Station	100018A
Geodetic Azimuth	313 22 16
Grid Azimuth	313 59 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARK1
Ref Mon # 2	DQUA
Ref Mon # 3	CSAL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100018A	10/26/2005	AHTD	CLARK	26	070294

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	556,524.8400
Easting (M)	296,625.2550
Elevation (M)*	
Northing (SFT)	1,825,865.2459
Easting (SFT)	973,178.0241
Elevation (SFT)*	
Convergence Angle	0 37 36.7301990
Scale Factor	0.999918693
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 4 22.1447748
Longitude	93 7 12.1024668
Ellipsoid Height (M):	71.948
Geoid Height (M):	-26.696

Location Description

THE STATION MARK IS LOCATED NORTHWEST OF GUM SPRINGS AT THE SOUTHWEST CORNER OF THE STATE HIGHWAY 26 OVERPASS OVER I 30 (EXIT 69). NORTHEAST 6.3 METERS OF THE CENTERLINE OF STATE HIGHWAY 26 AND SOUTHWEST 1.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "100018A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	12" CMP	130	8.00	26.2
MK # 2	SOUTHWEST CORNER OF BACK WALL OF B RIDGE	320	1.70	5.6
MK # 3				

AZ Mark Station	100018
Geodetic Azimuth	133 22 07
Grid Azimuth	133 59 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARK1
Ref Mon # 2	DQUA
Ref Mon # 3	CSAL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100019	1/6/2011	AHTD	CLARK	67	070344

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	544,633.3480
Easting (M)	295,681.1940
Elevation (M)*	60.264
Northing (SFT)	1,786,851.2426
Easting (SFT)	970,080.7173
Elevation (SFT)*	197.714
Convergence Angle	0 37 54.4754654
Scale Factor	0.999919189
Elevation Adjust. Factor	0.9999905428
Combined Adjust. Factor	0.9999097325

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 57 55.8614304
Longitude	93 7 43.8079548
Ellipsoid Height (M):	33.663
Geoid Height (M):	-26.609

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 2.65 MILES TO THE MARK ON THE RIGHT, 45.7 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, NORTH 76 FEET OF THE C/L OF LOCKIE ROAD AND WEST 14.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100019 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	180	14.28	46.9
MK # 2				
MK # 3				

AZ Mark Station	100019A
Geodetic Azimuth	15 58 04
Grid Azimuth	16 35 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	G 23, G23A

Comments

ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100019A	1/6/2011	AHTD	CLARK	67	070344

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	545,236.9831	
Easting (M)	295,861.1400	
Elevation (M)*	61.558	
Northing (SFT)	1,788,831.6687	
Easting (SFT)	970,671.0902	
Elevation (SFT)*	201.963	

Convergence Angle	0	37	50.6972772
Scale Factor	0.999919079		
Elevation Adjust. Factor	0.9999903396		
Combined Adjust. Factor	0.9999094193		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	58	15.5173296
Longitude	93	7	37.0574616
Ellipsoid Height (M):	34.938		
Geoid Height (M):	-26.613		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 3.0 MILES TO THE MARK ON THE LEFT, 43.6 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, SOUTH 8.6 FEET OF THE C/L OF A GRAVEL ROAD AND NORTHEAST 20.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100019A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	10	18.84	61.8
MK # 2				
MK # 3				

AZ Mark Station	100019
Geodetic Azimuth	195 58 08
Grid Azimuth	196 35 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	G 23, G 23A

Comments

ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100020	1/6/2011	AHTD	CLARK	CR 9	070344

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	548,157.3221
Easting (M)	299,159.7280
Elevation (M)*	53.711
Northing (SFT)	1,798,412.8143
Easting (SFT)	981,493.2076
Elevation (SFT)*	176.218
Convergence Angle	0 36 39.4576817
Scale Factor	0.999918675
Elevation Adjust. Factor	0.9999915710
Combined Adjust. Factor	0.9999102467

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 59 51.4597992
Longitude	93 5 29.7735936
Ellipsoid Height (M):	27.105
Geoid Height (M):	-26.606

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 5.0 MILES TO CURTIS ROAD ON THE RIGHT, TURN RIGHT AND GO 1.3 MILES TO THE MARK ON THE LEFT, 25.1 FEET NORTH OF THE CENTERLINE OF CURTIS ROAD (CR 9), SOUTH 2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100020 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	90	25.91	85.0
MK # 2				
MK # 3				

AZ Mark Station	J 192 X
Geodetic Azimuth	268 29 14
Grid Azimuth	269 05 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	G 23, G23A

Comments

ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100021	8/10/2011	AHTD	CLARK	51	070363, 070364, 070442

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	561,536.4382	0.0020
Easting (M)	299,217.3829	0.0020
Elevation (M)*	101.779	
Northing (SFT)	1,842,307.4643	
Easting (SFT)	981,682.3637	
Elevation (SFT)*	333.919	

Convergence Angle	0	36	41.3144701
Scale Factor	0.999919536		
Elevation Adjust. Factor	0.9999840279		
Combined Adjust. Factor	0.9999035651		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	7	5.7071748
Longitude	93	5	33.0917244
Ellipsoid Height:	75.001		
Grid Northing (Meters)	561,536.4394		
Grid Easting (Meters)	299,217.3675		

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	7	5.7071424
Longitude	93	5	33.0911196
Ellipsoid Height (M):	74.952		0.0050
Geoid Height (M):	-26.837		0.0050

Location Description

THE STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 51 AND I 40, WEST OF ARKADELPHIA, AT THE NORTHEAST CORNER OF THE HIGHWAY 51 OVERPASS OVER I 40, SOUTH 10.7 FEET OF THE BACK OF THE CURB, AND SOUTH 1.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100021 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER BRIDGE	260	8.99	29.5
MK # 2				
MK # 3				

AZ Mark Station	100005A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARHP, ARLR

Comments

Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011. (ORIG. STATIC USED GEOID 09 W/-26.777m GEOID HT.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100022	8/10/2011	AHTD	CLARK	26	070364

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	558,977.3552	
Easting (M)	292,231.6871	
Elevation (M)*	108.515	
Northing (SFT)	1,833,911.5395	
Easting (SFT)	958,763.4601	
Elevation (SFT)*	356.019	

Convergence Angle	0	39	13.2469664
Scale Factor	0.999919017		
Elevation Adjust. Factor	0.9999829708		
Combined Adjust. Factor	0.9999019892		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	5	40.1483292
Longitude	93	10	4.5490872
Ellipsoid Height (M):	81.668		
Geoid Height (M):	-26.830		

Location Description

THE STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 51 AND STATE HIGHWAY 26, SOUTHWEST OF ARKADELPHIA, THE MARK IS NORTH 18.5 FEET OF THE CENTER OF THE INTERSECTION, 71 FEET WEST OF A GRAVEL FIELD ROAD AND 38 FEET SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100022 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY	316	13.20	43.3
MK # 2	POWER POLE	331	16.25	53.3
MK # 3	WEST END OF GATE	54	18.14	59.5

AZ Mark Station	100022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100022A	8/10/2011	AHTD	CLARK	26	070364

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	559,125.2794	
Easting (M)	291,799.5440	
Elevation (M)*	92.779	
Northing (SFT)	1,834,396.8542	
Easting (SFT)	957,345.6706	
Elevation (SFT)*	304.393	

Convergence Angle	0	39	22.7194897
Scale Factor	0.999919041		
Elevation Adjust. Factor	0.9999854401		
Combined Adjust. Factor	0.9999044823		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	5	44.7888840
Longitude	93	10	21.4736556
Ellipsoid Height (M):	65.930		
Geoid Height (M):	-26.836		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 26 AND HIGHWAY 51, SOUTHWEST OF ARKADELPHIA, GO WEST ON 26 FOR 0.25 MILES TO THE MARK ON THE RIGHT, 19 FEET EAST OF THE CENTERLINE OF ROOSTER ROAD, 38.4 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 18.3 FEET SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100022A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF CULVERT	100	7.80	25.6
MK # 2	GUY	355	11.98	39.3
MK # 3				

AZ Mark Station	100022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100023	8/10/2011	AHTD	CLARK	51	070364

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	559,371.9859	
Easting (M)	295,671.8409	
Elevation (M)*	77.545	
Northing (SFT)	1,835,206.2571	
Easting (SFT)	970,050.0314	
Elevation (SFT)*	254.412	

Convergence Angle	0	37	58.2285743
Scale Factor	0.999919090		
Elevation Adjust. Factor	0.9999878308		
Combined Adjust. Factor	0.9999069218		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	5	54.2097024
Longitude	93	7	50.5136388
Ellipsoid Height (M):	50.747		
Geoid Height (M):	-26.796		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 26 AND HIGHWAY 51, SOUTHWEST OF ARKADELPHIA, GO NORTH ON 51 FOR 2.2 MILES TO THE MARK ON THE RIGHT, 26.7 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 44.5 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100023 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100023A	8/10/2011	AHTD	CLARK	51	070364

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	559,156.2582	
Easting (M)	295,060.6883	
Elevation (M)*	100.591	
Northing (SFT)	1,834,498.4904	
Easting (SFT)	968,044.9415	
Elevation (SFT)*	330.022	

Convergence Angle	0	38	11.5209717
Scale Factor	0.999919052		
Elevation Adjust. Factor	0.9999842143		
Combined Adjust. Factor	0.9999032675		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	5	46.9884768
Longitude	93	8	14.2631808
Ellipsoid Height (M):	73.796		
Geoid Height (M):	-26.801		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 26 AND HIGHWAY 51, SOUTHWEST OF ARKADELPHIA, GO NORTH ON 51 FOR 1.8 MILES TO THE MARK ON THE RIGHT, 25.6 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 34.0 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100023A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation established by digital levels from 2nd Order NGS BM's X 136 & Y 136 by B&F Engineering in Dec. 2011.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100024	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	562,392.1600	
Easting (M)	295,949.7419	
Elevation (M)*	101.010	
Northing (SFT)	1,845,114.9449	
Easting (SFT)	970,961.7782	
Elevation (SFT)*	331.396	

Vertical Determined By:	SEE COMMENTS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	7	32.3294880	
Longitude	93	7	40.9702296	
Ellipsoid Height (M):	74.173			
Geoid Height (M):	-26.817			

Convergence Angle	0	37	52.8872170
Scale Factor	0.999919732		
Elevation Adjust. Factor	0.9999841486		
Combined Adjust. Factor	0.9999038818		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 10 .6 MILES TO THE MARK ON THE LEFT, EAST 118.5 FEET OF THE CENTERLINE OF DEGRAY ROAD, NORTH 20.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 27.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100024 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/3 GUY	70	12.19	40.0
MK # 2	TELEPHONE BOX	55	13.78	45.2
MK # 3				

AZ Mark Station	100024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100024A	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	561,733.9117
Easting (M)	295,916.0827
Elevation (M)*	109.275
Northing (SFT)	1,842,955.3420
Easting (SFT)	970,851.3480
Elevation (SFT)*	358.514

Convergence Angle	0	37	53.4639359
Scale Factor	0.999919573		
Elevation Adjust. Factor	0.9999828515		
Combined Adjust. Factor	0.9999024258		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	7	10.9539264	
Longitude	93	7	42.0006540	
Ellipsoid Height (M):	82.440			
Geoid Height (M):	-26.812			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 10 .6 MILES TO MT ZION ROAD AND TURN RIGHT AND GO 0.4 MILES TO THE MARK ON THE LEFT, NORTH 43.9 FEET OF THE CENTERLINE OF A DRIVEWAY, EAST 15.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 15.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100024A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	85	4.72	15.5
MK # 2	TELEPHONE BOX	73	4.36	14.3
MK # 3				

AZ Mark Station	100024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100025	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	563,971.6528	
Easting (M)	292,058.3512	
Elevation (M)*	117.910	
Northing (SFT)	1,850,296.9976	
Easting (SFT)	958,194.7739	
Elevation (SFT)*	386.842	

Convergence Angle	0	39	18.2784442
Scale Factor	0.999920144		
Elevation Adjust. Factor	0.9999814965		
Combined Adjust. Factor	0.9999016420		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	8	22.1740152
Longitude	93	10	13.5388344
Ellipsoid Height (M):	91.036		
Geoid Height (M):	-26.874		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 8.0 MILES TO THE MARK ON THE RIGHT, WEST 45.8 FEET OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTH 19.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 14.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100025 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100025A	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	563,938.1579
Easting (M)	292,474.3648
Elevation (M)*	124.797
Northing (SFT)	1,850,187.1064
Easting (SFT)	959,559.6452
Elevation (SFT)*	409.437
Convergence Angle	0 39 9.1819491
Scale Factor	0.999920136
Elevation Adjust. Factor	0.9999804157
Combined Adjust. Factor	0.9999005533

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	8	21.2410176
Longitude	93	9	57.2861160
Ellipsoid Height (M):	97.919		
Geoid Height (M):	-26.869		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 8.25 MILES TO THE MARK ON THE LEFT, EAST 14.5 FEET OF THE CENTERLINE OF A CONCRETE DRIVEWAY, NORTH 28.0 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100025A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100026	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	567,471.7170	
Easting (M)	289,013.4970	
Elevation (M)*	134.230	
Northing (SFT)	1,861,780.1249	
Easting (SFT)	948,205.1147	
Elevation (SFT)*	440.388	

Convergence Angle	0	40	25.6947403
Scale Factor	0.999921288		
Elevation Adjust. Factor	0.9999789353		
Combined Adjust. Factor	0.9999002250		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	10	14.6215056
Longitude	93	12	13.9916088
Ellipsoid Height (M):	107.301		
Geoid Height (M):	-26.940		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 5.0 MILES TO THE MARK ON THE LEFT, NORTHWEST 155 FEET OF THE CENTERLINE OF A WILLIAMS DRIVE, NORTHEAST 27.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 14.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100026 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	344	23.16	76.0
MK # 2	FENCE CORNER	54	4.57	15.0
MK # 3				

AZ Mark Station	100026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100026A	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	566,984.6586	
Easting (M)	289,290.9660	
Elevation (M)*	124.314	
Northing (SFT)	1,860,182.1674	
Easting (SFT)	949,115.4443	
Elevation (SFT)*	407.852	

Convergence Angle	0	40	19.5061394
Scale Factor	0.999921111		
Elevation Adjust. Factor	0.9999804915		
Combined Adjust. Factor	0.9999016041		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	9	58.9200156
Longitude	93	12	2.9344284
Ellipsoid Height (M):	97.383		
Geoid Height (M):	-26.931		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 5.35 MILES TO THE MARK ON THE RIGHT, WEST 179.5 FEET OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTH 30.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100026A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100027	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	569,230.1505	
Easting (M)	285,743.4818	
Elevation (M)*	150.151	
Northing (SFT)	1,867,549.2521	
Easting (SFT)	937,476.7399	
Elevation (SFT)*	492.621	

Vertical Determined By:	SEE COMMENTS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	11	10.4238132	
Longitude	93	14	22.5039048	
Ellipsoid Height (M):	123.168			
Geoid Height (M):	-27.000			

Convergence Angle	0	41	37.6218755
Scale Factor	0.999921966		
Elevation Adjust. Factor	0.9999764369		
Combined Adjust. Factor	0.9998984048		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTH OF HOLLYWOOD, GO EAST ON HIGHWAY 8 FOR 2.6 MILES TO THE MARK ON THE RIGHT, SOUTH 37.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100027A	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	569,236.2587	
Easting (M)	286,339.4843	
Elevation (M)*	142.562	
Northing (SFT)	1,867,569.2921	
Easting (SFT)	939,432.1247	
Elevation (SFT)*	467.721	

Convergence Angle	0	41	24.5962671
Scale Factor	0.999921972		
Elevation Adjust. Factor	0.9999776279		
Combined Adjust. Factor	0.9998996017		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	11	10.8556728
Longitude	93	13	59.2310352
Ellipsoid Height (M):	115.594		
Geoid Height (M):	-26.992		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTHWEST OF ARKADELPHIA, GO EAST ON HIGHWAY 8 FOR 2.95 MILES TO THE MARK ON THE LEFT, NORTH 42.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 12 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100027A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100028	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	570,032.9804
Easting (M)	281,624.7653
Elevation (M)*	144.983
Northing (SFT)	1,870,183.2032
Easting (SFT)	923,963.9175
Elevation (SFT)*	475.664
Convergence Angle	0 43 7.8669843
Scale Factor	0.999922285
Elevation Adjust. Factor	0.9999772480
Combined Adjust. Factor	0.9998995348

Vertical Determined By:	SEE COMMENTS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	11	34.8311004
Longitude	93	17	3.7449456
Ellipsoid Height (M):	117.939		
Geoid Height (M):	-27.061		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND HIGHWAY 8, NORTH OF HOLLYWOOD, GO WEST ON HIGHWAY 8 FOR 0.3 MILES TO THE MARK ON THE RIGHT, NORTH 55.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 10.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "100028 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100028A	8/10/2011	AHTD	CLARK	8	070363

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	570,143.2381	
Easting (M)	281,183.3664	
Elevation (M)*	146.742	
Northing (SFT)	1,870,544.9403	
Easting (SFT)	922,515.7613	
Elevation (SFT)*	481.435	

Convergence Angle	0	43	17.5459872
Scale Factor	0.999922331		
Elevation Adjust. Factor	0.9999769720		
Combined Adjust. Factor	0.9998993048		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 09		
Latitude	34	11	38.2293348
Longitude	93	17	21.0384312
Ellipsoid Height (M):	119.691		
Geoid Height (M):	-27.069		

Location Description

TO REACH THE STATION MARK FROM THE STATION MARK IS LOCATED IN THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 53 AND 8, NORTH OF HOLLYWOOD, 56.3 FEET SOUTH OF THE CENTERLINE OF HIGHWAY 8, EAST 76.7 FEET OF THE CENTERLINE OF HIGHWAY 53 AND NORTH 21.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "100028A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND,

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	100028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels ran by B&F Engineering in Dec. 2011 from TBM #903 from Job 070364 (4" AHTD STD. DISC in top of NW Parapet Wall of Bridge #06962 over I-30) to 2nd Order NGS BM K 138. TBM 903 based on digital levels by B&F Engineering in Dec. 2011 from 2nd Order NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100029	9/25/2012	AHTD	Clark	67	070376,070460

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	570,930.3449	0.0020
Easting (M)	304,499.3399	0.0020
Elevation (M)*	77.045	
Northing (SFT)	1,873,127.3066	
Easting (SFT)	999,011.5843	
Elevation (SFT)*	252.771	

Convergence Angle	0	34	48.0299948
Scale Factor			0.999922804
Elevation Adjust. Factor			0.9999879093
Combined Adjust. Factor			0.9999107143

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid12B

Latitude	34	12	12.3696936
Longitude	93	2	10.6856160
Ellipsoid Height (M):			50.362
Geoid Height (M):			-26.801

Location Description

To reach from the Hot Springs and Clark Co. line on hwy.67, go southwest for .55miles to the station on the left. A standard alum cap stamped 100029 2012 on a 4ft 5/8 rebar driven 2" below ground surface. Lat-034.12.11 Long-093.02.13

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	12	12.3697080
Longitude	93	2	10.6854000
Ellipsoid Height:			50.362
Grid Northing (Meters)			570,930.3453
Grid Easting (Meters)			304,499.3455

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CL of hwy.67		13.10	43.0
MK # 2	CL of Riverbend Rd.		28.95	95.0
MK # 3	West of mi.marker7	63	32.00	105.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB

Comments

DIGITAL LEVELS WERE RAN BY CREW S5102 FROM NGS BM A 152 DURING JOB 070376 IN OCTOBER 2012. NOTE: LEVELS WERE RAN THROUGH NGS BM B 152 DURING LEVEL RUN AND THE DETERMINED ELEV. (264.9063) MISSED THE PUBLISHED ELEV. (264.954) BY 0.05'. Position updated by S5101 in 02/2017 during job 070460

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100029A	9/25/2012	AHTD	Clark	67	070376,070460

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	571,139.7019	0.0020
Easting (M)	305,041.1451	0.0020
Elevation (M)*	62.529	
Northing (SFT)	1,873,814.1720	
Easting (SFT)	1,000,789.1569	
Elevation (SFT)*	205.146	

Convergence Angle	0	34	36.2308216
Scale Factor	0.999922904		
Elevation Adjust. Factor	0.9999901873		
Combined Adjust. Factor	0.9999130921		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	12	19.3419720
Longitude	93	1	49.6038720
Ellipsoid Height:	35.854		
Grid Northing (Meters)	571,139.7053		
Grid Easting (Meters)	305,041.1489		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	12	19.3418604
Longitude	93	1	49.6040196
Ellipsoid Height (M):	35.854		
Geoid Height (M):	-26.801		

Location Description

To reach from the Hot Springs and Clark Co. line on hwy.67, Go southwest for .20miles to the station on the right. A standard alum cap stamped 100029A 2012 on a 3.ft 5/8 rebar driven 2" below ground surface. Lat-034.12.19 Long-093.01.49

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North of CL of hwy.67		12.50	41.0
MK # 2	South of 3 strand barb Fence		11.28	37.0
MK # 3	Power Pole	62	24.69	81.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB

Comments

DIGITAL LEVELS WERE RAN BY CREW S5102 FROM NGS BM A 152 DURING JOB 070376 IN OCTOBER 2012. NOTE: LEVELS WERE RAN THROUGH NGS BM B 152 DURING LEVEL RUN AND THE DETERMINED ELEV. (264.9063) MISSED THE PUBLISHED ELEV. (264.954) BY 0.05'. Position updated by S5101 in 02/2017 during job 070460

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100030	8/1/2017	B&F	CLARK	51	070439, 070442

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	562,177.9113	0.0040
Easting (M)	300,335.5697	0.0040
Elevation (M)*	90.371	
Northing (SFT)	1,844,412.0307	
Easting (SFT)	985,350.9483	
Elevation (SFT)*	296.492	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	34	7	26.9115096	
Longitude	93	4	49.7208036	
Ellipsoid Height (M):	63.525			0.0130
Geoid Height (M):	-26.828			0.0130

Convergence Angle	0	36	17.0405082
Scale Factor	0.999919691		
Elevation Adjust. Factor	0.9999858180		
Combined Adjust. Factor	0.9999055102		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET). FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 1.19 KM (.75 MI) TO THE INTERSECTION OF 26TH ST., TURN LEFT (NORTH) ONTO 26TH ST. AND GO 0.12 KM (.07 MI) TO THE STATION ON THE LEFT. THE STATION IS SOUTH OF THE ENTRANCE TO "OUACHITA BEHAVIORAL HEALTH & WELLNESS" (205 N. 26TH ST.)

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)		
Latitude	34	7	26.9114196
Longitude	93	4	49.7206308
Ellipsoid Height:	63.554		
Grid Northing (Meters)	562,177.9085		
Grid Easting (Meters)	300,335.5741		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	EDGE OUACHITA SIGN	182	7.10	23.3
MK # 2	POWER POLE	75	16.67	54.7
MK # 3	CORNER WOODEN FENCE	9	25.79	84.6

AZ Mark Station	100030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (ARCM)
Ref Mon # 2	ARGS (ARHP)
Ref Mon # 3	ARHP, ARLR (ARLR, ARRV)

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.8024m GEOID HT.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100030A	8/1/2017	B&F	CLARK	51	070439

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	561,785.8284	0.0030
Easting (M)	300,345.2364	0.0030
Elevation (M)*	80.279	
Northing (SFT)	1,843,125.6720	
Easting (SFT)	985,382.6631	
Elevation (SFT)*	263.383	

Convergence Angle	0	36	16.7389885
Scale Factor	0.999919596		
Elevation Adjust. Factor	0.9999874017		
Combined Adjust. Factor	0.9999069988		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	7	14.1896604	
Longitude	93	4	49.1820780	
Ellipsoid Height (M):	53.472			0.0060
Geoid Height (M):	-26.800			0.0060

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET).
FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 1.19 KM (.75 MI) TO THE INTERSECTION OF 26TH ST., TURN RIGHT(SOUTH) ONTO 26TH ST. AND GO
0.27 KM (.17 MI) TO THE STATION ON THE LEFT, NORTHEAST CORNER OF 26TH ST. & CLINTON ST. THE STATION IS ON A VACANT LOT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	STOP SIGN	193	6.49	21.3
MK # 2	POWER POLE	264	23.26	76.3
MK # 3	DISCOUNT TOBACCO SIGN	300	30.48	100.0

AZ Mark Station	100030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100031	8/1/2017	B&F	CLARK	51	070439, 070442

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	561,973.1012	0.0020
Easting (M)	302,630.7840	0.0020
Elevation (M)*	74.786	
Northing (SFT)	1,843,740.0829	
Easting (SFT)	992,881.1638	
Elevation (SFT)*	245.360	

Convergence Angle	0	35	26.8619870
Scale Factor	0.999919647		
Elevation Adjust. Factor	0.9999882638		
Combined Adjust. Factor	0.9999079118		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)		
Latitude	34	7	21.0415728
Longitude	93	3	20.0664972
Ellipsoid Height:	48.003		
Grid Northing (Meters)	561,973.1024		
Grid Easting (Meters)	302,630.7913		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	7	21.0415332	
Longitude	93	3	20.0667816	
Ellipsoid Height (M):	47.973			0.0050
Geoid Height (M):	-26.800			0.0050

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET).
FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 3.51 KM (2.18 MI) TO THE INTERSECTION OF N.8TH ST. STATION IS ON THE LEFT AT THE NORTHWEST
INTERSECTION OF HWY 51 & N.8TH ST. AT BACK EDGE OF SIDEWALK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	STOP SIGN	66	2.07	6.8
MK # 2	APEX SIGN	300	4.45	14.6
MK # 3	FIRE HYDRANT	134	18.50	60.7

AZ Mark Station	100031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (ARCM)
Ref Mon # 2	ARGS (ARHP)
Ref Mon # 3	ARHP, ARLR (ARLR, ARRV)

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.7761m GEIOD HT.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100031A	8/1/2017	B&F	CLARK	51	070439, 070442

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	561,558.3216	0.0020
Easting (M)	302,626.7123	0.0020
Elevation (M)*	74.253	
Northing (SFT)	1,842,379.2601	
Easting (SFT)	992,867.8053	
Elevation (SFT)*	243.613	

Convergence Angle	0	35	26.8575019
Scale Factor			0.999919549
Elevation Adjust. Factor			0.9999883474
Combined Adjust. Factor			0.9999078973

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	34	7	7.5782892
Longitude	93	3	20.0582856
Ellipsoid Height:			47.465
Grid Northing (Meters)			561,558.3198
Grid Easting (Meters)			302,626.7247

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	7	7.5783432	
Longitude	93	3	20.0587680	
Ellipsoid Height (M):			47.441	0.0050
Geoid Height (M):			-26.797	0.0050

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 51/HWY 8(EXIT 73), LOCATED IN ARKADELPHIA ALONG HWY 51(AKA PINE STREET).
FROM I-30 EXIT 73, GO EAST ON HWY 51 FOR 3.51 KM (2.18 MI) TO THE INTERSECTION OF N.8TH ST., TURN RIGHT(SOUTH) ONTO N.8TH ST. AND GO
0.41 KM (.25 MI) TO THE STATION ON THE LEFT, AT "TOWN HALL" BUILDING IN LAWN(700 CLAY ST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	STOP SIGN	333	4.02	13.2
MK # 2	NW BUILDING CORNER	117	25.06	82.2
MK # 3				

AZ Mark Station	100031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (ARCM)
Ref Mon # 2	ARGS (ARHP)
Ref Mon # 3	ARHP, ARLR (ARLR, ARRV)

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING FOR JOB #070439 IN SUMMER OF 2017 FROM NGS 2ND ORDER BM's X 136 & Y 136 (ORIG. STATIC USED GEOID 12A W/-26.7736m GEIOD HT.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100032	9/25/2017	AHTD	CLARK	7	012275

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	569,288.5456	0.0030
Easting (M)	301,209.0218	0.0030
Elevation (M)*		
Northing (SFT)	1,867,740.8367	
Easting (SFT)	988,216.5990	
Elevation (SFT)*		

Convergence Angle	0	35	59.5886415
Scale Factor	0.999922064		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	34	11	17.9857104
Longitude	93	4	18.5395332
Ellipsoid Height (M):	40.474	0.0070	
Geoid Height (M):	-26.843	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND I 30, IN CADDO VALLEY, GO NORTH ON HIGHWAY 7 FOR 0.25 MILES TO THE MARK ON THE RIGHT, EAST 37' OF THE C/L OF THE HIGHWAY AND NORTH 79' OF THE C/L FROST ROAD AND 105' SOUTH OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100032 ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SS MANHOLE	102	13.26	43.5
MK # 2	SW CORNER OF HOUSE	29	32.31	106.0
MK # 3				

AZ Mark Station	100032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARHP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100032A	9/25/2017	AHTD	CLARK	7	012275, 070509

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	569,762.5180	0.0030
Easting (M)	301,029.7623	0.0030
Elevation (M)*		
Northing (SFT)	1,869,295.8611	
Easting (SFT)	987,628.4785	
Elevation (SFT)*		

Convergence Angle	0	36	3.6156782
Scale Factor			0.999922265
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	34	11	33.3074472
Longitude	93	4	25.7346444
Ellipsoid Height (M):	43.796		0.0070
Geoid Height (M):	-26.846		0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND I 30, IN CADDO VALLEY, GO NORTH ON HIGHWAY 7 FOR 0.5 MILES TO THE MARK ON THE RIGHT, EAST 25' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100032A ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	11	33.3074472
Longitude	93	4	25.7346444
Ellipsoid Height:	43.796		
Grid Northing (Meters)	569,762.5180		
Grid Easting (Meters)	301,029.7623		

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDERGROUND CABLE MKR	114	14.90	48.9
MK # 2	COMBINATION POLE	5	35.35	116.0
MK # 3				

AZ Mark Station	100032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARHP

Comments

OLD REFERENCE MARKS FOR SUPERCEDED POSITION WERE ARCM, ARLR & ARHP. OLD GEOID HT. -26.846m FROM GEOID 12 B.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100033	9/25/2017	AHTD	CLARK	7	012275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	571,834.9248	0.0030
Easting (M)	300,401.4086	0.0030
Elevation (M)*		
Northing (SFT)	1,876,095.0824	
Easting (SFT)	985,566.9547	
Elevation (SFT)*		

Convergence Angle	0	36	17.8296102	
Scale Factor	0.999923212			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	12	40.3523064	
Longitude	93	4	51.1306932	
Ellipsoid Height (M):	90.667			0.0070
Geoid Height (M):	-26.860			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND 283, NORTH OF CADDO VALLEY, GO SOUTH ON HIGHWAY 7 FOR 0.3 MILES TO THE MARK ON THE LEFT, NORTHEAST 10' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100033 ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGN	68	5.30	17.4
MK # 2	UNDERGROUND CABLE MKR	60	16.15	53.0
MK # 3				

AZ Mark Station	100033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARHP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100033A	9/25/2017	AHTD	CLARK	7	012275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	572,195.1991	0.0030
Easting (M)	300,136.7389	0.0030
Elevation (M)*		
Northing (SFT)	1,877,277.0824	
Easting (SFT)	984,698.6175	
Elevation (SFT)*		

Convergence Angle	0	36	23.6998631	
Scale Factor	0.999923386			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	12	51.9540696	
Longitude	93	5	1.6190808	
Ellipsoid Height (M):	112.483		0.0070	
Geoid Height (M):	-26.865		0.0070	

Location Description

THE STATION MARK IS AT THE JUNCTION OF STATE HIGHWAY 7 AND 283, NORTH OF CADDO VALLEY, 38' WEST OF THE C/L OF HIGHWAY 7 AND 28' EAST OF A DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "2017 100033A ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EDGE OF SIGN	170	25.15	82.5
MK # 2				
MK # 3				

AZ Mark Station	100033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARHP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100034	3/19/2020	ARDOT	CLARK	I-30	070513

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	538,340.2673	0.0020
Easting (M)	280,510.9078	0.0020
Elevation (M)*		
Northing (SFT)	1,766,204.6936	
Easting (SFT)	920,309.5367	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	54	25.7922396	
Longitude	93	17	31.6235184	
Ellipsoid Height (M):	46.909			0.0110
Geoid Height (M):	-26.828			0.0110

Convergence Angle	0	43	23.4703619
Scale Factor	0.999920923		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

Exit 65 Intersection of highway 53 & I-30 8.9 miles. 45' NW of fence 15' to EP

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South corner of billboard	280		
MK # 2	To closest powerpole	146		
MK # 3				

AZ Mark Station	100034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARGS, ARHP

Comments

STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARCM, ARDQ, ARGS & ARHP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100034A	3/19/2020	ARDOT	CLARK	I-30	070513

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	538,030.4164	0.0020
Easting (M)	280,241.7422	0.0020
Elevation (M)*		
Northing (SFT)	1,765,188.1245	
Easting (SFT)	919,426.4492	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	54	15.6254508	
Longitude	93	17	41.9482428	
Ellipsoid Height (M):	47.925			0.0110
Geoid Height (M):	-26.829			0.0110

Convergence Angle	0	43	29.2490140
Scale Factor	0.999921033		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

2.1 Miles from intersection of HWY67/HWY51 on East bound on-ramp, stationed on the left 55' S of I-30 shoulder, 66' S of I-30 EP, 60" West of Center of On-Ramp

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	8" pine	213		
MK # 2	RW Marker	58		
MK # 3				

AZ Mark Station	100034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARGS, ARHP

Comments

STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARCM, ARDQ, ARGS & ARHP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100035	7/8/2020	ARDOT	CLARK	67	070442

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	560,390.9346	0.0010
Easting (M)	302,207.1326	0.0020
Elevation (M)*	56.257	
Northing (SFT)	1,838,549.2579	
Easting (SFT)	991,491.2342	
Elevation (SFT)*	184.570	

Convergence Angle	0	35	35.7574267
Scale Factor	0.999919295		
Elevation Adjust. Factor	0.9999911715		
Combined Adjust. Factor	0.9999104672		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	6	29.5496064
Longitude	93	3	35.9602740
Ellipsoid Height (M):	29.447	0.0040	
Geoid Height (M):	-26.796	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67S, 51N AND 7S, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 67 FOR 1.05 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 24.5' AND NORTHEAST 56' OF THE C/L OF SIPLAST ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100035" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/GUY	280	12.59	41.3
MK # 2				
MK # 3				

AZ Mark Station	100035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARHP, ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM ARDOT GPS POINTS 100031 & 100031A AND FROM NGS 2ND ORDER BM U 348. ELEV. ON GPS POINTS 100031 & 100031A ARE BASED ON NGS 2ND ORDER BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100035A	7/8/2020	ARDOT	CLARK	67	070442

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	560,031.0099	0.0020
Easting (M)	301,865.1456	0.0020
Elevation (M)*	55.869	
Northing (SFT)	1,837,368.4050	
Easting (SFT)	990,369.2319	
Elevation (SFT)*	183.296	

Convergence Angle	0	35	43.1440791
Scale Factor	0.999919224		
Elevation Adjust. Factor	0.9999912325		
Combined Adjust. Factor	0.9999104572		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	6	17.7529644
Longitude	93	3	49.1580144
Ellipsoid Height (M):	29.058	0.0040	
Geoid Height (M):	-26.799	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67S, 51N AND 7S, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 67 FOR 1.35 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 34.2' AND SOUTHWEST 25.8' OF THE C/L OFA GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100035A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	320	18.38	60.3
MK # 2	COMBINATION POLE	318	6.83	22.4
MK # 3				

AZ Mark Station	100035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARHP, ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM ARDOT GPS POINTS 100031 & 100031A AND FROM NGS 2ND ORDER BM U 348. ELEV. ON GPS POINTS 100031 & 100031A ARE BASED ON NGS 2ND ORDER BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100036	7/8/2020	ARDOT	CLARK	N/A	070442

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	560,690.5206	0.0020
Easting (M)	300,262.6348	0.0020
Elevation (M)*	85.804	
Northing (SFT)	1,839,532.1497	
Easting (SFT)	985,111.6610	
Elevation (SFT)*	281.509	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	6	38.6127936	
Longitude	93	4	51.9540816	
Ellipsoid Height (M):	58.998			0.0050
Geoid Height (M):	-26.821			0.0050

Convergence Angle	0	36	18.2904530
Scale Factor	0.999919353		
Elevation Adjust. Factor	0.9999865347		
Combined Adjust. Factor	0.9999058888		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 30 AND STATE HIGHWAY 51, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 51 0.8 MILES TO 26th STREET AND TURN RIGHT AND GO 0.8 MILES TO WILLOWBROOK STREET AND TURN LEFT AND GO 125' TO THE MARK ON THE RIGHT, 15.8' SOUTHWEST OF THE C/L OF THE STREET AND 64' NORTHWEST OF THE C/L OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100036" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MANHOLE	150	12.74	41.8
MK # 2				
MK # 3				

AZ Mark Station	100036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARHP, ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100036A	7/8/2020	ARDOT	CLARK	N/A	070442

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	560,380.9062	0.0020
Easting (M)	300,503.7267	0.0020
Elevation (M)*	62.461	
Northing (SFT)	1,838,516.3564	
Easting (SFT)	985,902.6433	
Elevation (SFT)*	204.923	

Convergence Angle	0	36	12.9540988
Scale Factor	0.999919290		
Elevation Adjust. Factor	0.9999901980		
Combined Adjust. Factor	0.9999094888		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	6	28.6466832
Longitude	93	4	42.4196112
Ellipsoid Height (M):	35.670	0.0060	
Geoid Height (M):	-26.817	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 30 AND STATE HIGHWAY 51, IN ARKADELPHIA, GO SOUTH ON HIGHWAY 51 0.8 MILES TO 26th STREET AND TURN RIGHT AND GO 0.8 MILES TO WILLOWBROOK STREET AND TURN LEFT AND GO 0.25 MILES TO THE MARK ON THE RIGHT, 45.7' SOUTH OF THE C/L OF THE STREET AND 114.4' WEST OF THE C/L OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 100036A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	315	12.83	42.1
MK # 2				
MK # 3				

AZ Mark Station	100036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARHP, ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY/AUG. 2020 FOR JOB #070442 FROM GPS POINT 100021 WHICH IS BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN DEC. 2011 FROM 2ND ORDER NGS BM's X 136 & Y 136.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100037	3/5/2024	AHTD	Clark	67	07X273

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83(2011)

Northing (M)	555,644.5484	0.0010
Easting (M)	298,718.3872	0.0010
Elevation (M)*	81.546	0.0000
Northing (SFT)	1,822,977.1559	
Easting (SFT)	980,045.2420	
Elevation (SFT)*	267.538	

Convergence Angle	0	36	50.8334829
Scale Factor	0.999918612		
Elevation Adjust. Factor	0.9999872030		
Combined Adjust. Factor	0.9999058160		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	3	54.3102012	
Longitude	93	5	50.0987508	
Ellipsoid Height (M):	54.756			0.0060
Geoid Height (M):	-26.806			

Location Description

To reach from the intersection of I-30 and Hwy 26 at exit 69, travel 1.6 miles on Hwy 26 to the intersection of Hwy 67 and Hwy 26. From the intersection of Hwy 67 and Hwy 26 travel 0.3 miles to the station on the left. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 100037, 2024 set just below the surface of the ground on top of a 5/8in rebar 4ft in length. The station is 70ft west of the centerline of Hwy 67 and 39ft east of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	32	53.30	174.9
MK # 2				
MK # 3				

AZ Mark Station	100037A
Geodetic Azimuth	9 38 30.6
Grid Azimuth	10 15 21.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHS
Ref Mon # 3	ARSH

Comments

ELEV. EST BY DIGITAL LEVEL RUN FROM BM C 354 DURING JOB 07X273 BY CREW S5102 IN MARCH 2024

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
100037A	3/5/2024	AHTD	Clark	67	07X273

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83(2011)

Northing (M)	556,087.7944	0.0010
Easting (M)	298,798.5862	0.0010
Elevation (M)*	64.898	0.0000
Northing (SFT)	1,824,431.3721	
Easting (SFT)	980,308.3616	
Elevation (SFT)*	212.919	

Convergence Angle	0	36	49.1866114
Scale Factor			0.999918652
Elevation Adjust. Factor			0.9999898155
Combined Adjust. Factor			0.9999084684

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	4	8.7238848	
Longitude	93	5	47.1562836	
Ellipsoid Height (M):			38.098	0.0060
Geoid Height (M):			-26.809	

Location Description

To reach from the intersection of I-30 and Hwy 26 at Exit 69, travel east 1.6 miles on Hwy 26 to the intersection of Hwy 67 and Hwy 26. From the intersection of Hwy 67 and Hwy 26, travel north along Hwy 67 for 0.6 miles to the station on the right. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 100037A, 2024 set just below the surface of the ground on top of a 5/8in rebar 4ft in length. The station is 30ft east of the centerline of Hwy 67 and 73ft west of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North End of 18in RCP	333	25.60	84.0
MK # 2				
MK # 3				

AZ Mark Station	100037
Geodetic Azimuth	189 38 30.6
Grid Azimuth	190 15 19.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHS
Ref Mon # 3	ARSH

Comments

ELEV. EST BY DIGITAL LEVEL RUN FROM BM C 354 DURING JOB 07X273 BY CREW S5102 IN MARCH 2024

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
10015	8/31/2017	AHTD	ARKANSAS	79	20630

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	597,603.1388	0.0020
Easting (M)	434,544.7392	0.0020
Elevation (M)*	59.993	
Northing (SFT)	1,960,636.2979	
Easting (SFT)	1,425,668.8652	
Elevation (SFT)*	196.828	

Convergence Angle	0	12	37.4514964
Scale Factor	0.999944408		
Elevation Adjust. Factor	0.9999905852		
Combined Adjust. Factor	0.9999349937		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12B		
Latitude	34	26	51.6812640
Longitude	91	37	26.6605320
Ellipsoid Height (M):	33.493	0.0080	
Geoid Height (M):	-26.500		

Location Description

From the intersection of Hwy. 79 and Goldman Sunshine Rd., go South 1.0 mile to the station on the left at the intersection of Roth Prarie Rd. and Goldman Loop, 27' NW of witness post, 19' S. of CL 343/Goldman Sunshine Rd., 39' E of CL Roth Prarie Rd.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WITNESS POST		3.66	12.0
MK # 2	CENTER OF gOLDMAN lOOP		4.42	14.5
MK # 3	CL of Roth Prarie Rd.		11.87	39.0

AZ Mark Station	010015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY

Comments

Elev. based on static GPS constraining Ortho. ht. at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
11 DWB 1967	9/13/1995	USC&GS	CRAWFORD	59	040226

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	134,609.9300	
Easting (M)	186,219.1990	
Elevation (M)*	276.268	
Northing (SFT)	441,632.7453	
Easting (SFT)	610,954.1554	
Elevation (SFT)*	906.389	

Convergence Angle	-1	22	18.1822164	
Scale Factor	0.999936492			
Elevation Adjust. Factor	0.9999566464			
Combined Adjust. Factor	0.9998931412			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	31	24.9907872	
Longitude	94	21	26.3200140	
Ellipsoid Height (M):	246.345			
Geoid Height (M):	-29.923			

Location Description

FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO NORTH ON HWY. 59 FOR 7.017 KM (4.36 MILES) TO THE STATION ON THE RIGHT JUST NORTH OF THE SMALL TOWN OF FIGURE FIVE. THE STATION IS 25.75 METERS SOUTHEAST OF A GRAVEL DRIVE, 13.10 METERS NORTHWEST OF A GRAVEL DRIVE, 11.54 METERS NORTH-NORTHWEST OF THE CENTER OF HWY. 59, 0.45 METERS NORTH OF A WITNESS POST, 0.35 METERS SOUTH OF A CHAIN LINK FENCE SURROUNDING A USED CAR LOT AND 0.23 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD TABLET SET IN A CONCRETE POST PROJECTING 4" AND STAMPED "11 DWB 1967 906". THIS STATION IS A USC&GS BENCH MARK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	292	13.50	44.3
MK # 2	TELEPHONE POLE	86	0.45	1.5
MK # 3	NONE			

AZ Mark Station	11 DWB A
Geodetic Azimuth	135 01 28.30159
Grid Azimuth	136 23 46.4804

Area Reference Monuments (used for Processing)

Ref Mon # 1	92170001
Ref Mon # 2	FORT SMITH GIS NO. 103
Ref Mon # 3	GRASSY OFFSET

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
11 DWB AZ	9/13/1995	AHTD	CRAWFORD	59	040226

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	134,406.4061	
Easting (M)	186,413.0370	
Elevation (M)*	276.482	
Northing (SFT)	440,965.0173	
Easting (SFT)	611,590.1056	
Elevation (SFT)*	907.091	

Convergence Angle	-1	22	13.5939790	
Scale Factor	0.999936526			
Elevation Adjust. Factor	0.9999566128			
Combined Adjust. Factor	0.9998931416			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	31	18.5390184	
Longitude	94	21	18.4350780	
Ellipsoid Height (M):	246.554			
Geoid Height (M):	-29.928			

Location Description

FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN IF VAN BUREN, GO NORTH ON HWY. 59 FOR 6.727 KM (4.18 MILES) TO THE STATION ON THE RIGHT IN THE SMALL TOWN OF FIGURE FIVE. THE STATION IS 11.50 METERS NORTHEAST OF THE CENTER OF HWY. 59, 1.05 METERS SOUTHWEST OF A FENCE LINE AND 0.84 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "11DWBA 1995" SET ON TOP OF A 3/4" REBAR 0.61 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	310	17.00	55.8
MK # 2	COMBINATION POLE	234	22.10	72.5
MK # 3	POWER POLE	82	5.80	19.0

AZ Mark Station	11 DWB 1967
Geodetic Azimuth	315 01 32.8830
Grid Azimuth	316 23 46.4804

Area Reference Monuments (used for Processing)

Ref Mon # 1	92170001
Ref Mon # 2	FORT SMITH GIS NO. 103
Ref Mon # 3	GRASSY OFFSET

Comments

THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "11 DWB 1967".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110001	7/13/1994	AHTD	CLAY	62	R00084, 050324

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	234,311.9065	0.0020
Easting (M)	544,303.4607	0.0030
Elevation (M)*	91.219	0.0011
Northing (SFT)	768,738.3132	
Easting (SFT)	1,785,768.9373	
Elevation (SFT)*	299.273	

Convergence Angle	0	56	11.2952013
Scale Factor			1.000045997
Elevation Adjust. Factor			0.9999856850
Combined Adjust. Factor			1.0000316814

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	26	4.6494132
Longitude	90	23	26.3954148
Ellipsoid Height:			61.810
Grid Northing (Meters)			234,312.1501
Grid Easting (Meters)			544,303.3820

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	26	4.6414680
Longitude	90	23	26.3924160
Ellipsoid Height (M):		62.499	0.0040
Geoid Height (M):		-28.724	

Location Description

THE STATION IS AT THE POST OFFICE IN THE TOWN OF McDOUGAL, 15.7 METERS NORTH OF THE CENTERLINE OF HWY. 62, 12.4 METERS WEST OF THE DRIVEWAY ENTRANCE TO THE POST OFFICE, 24.10 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF THE POST OFFICE BUILDING, 19.95 METERS WEST OF THE SOUTHWEST CORNER OF A SHEET METAL BUILDING AND 0.50 METERSSOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	193	3.10	10.2
MK # 2	COMBINATION POLE	261	19.50	64.0
MK # 3	POWER POLE	22	17.40	57.1

AZ Mark Station	A 190 BM
Geodetic Azimuth	262 47 51.17852
Grid Azimuth	261 51 39.82605

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Elevation by static GPS by crew S5113 in August 2016 for job 050324

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110002	7/13/1994	AHTD	CLAY	62	R00084

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,303.4931	
Easting (M)	549,106.8400	
Elevation (M)*	96.646	
Northing (SFT)	768,710.7103	
Easting (SFT)	1,801,528.0242	
Elevation (SFT)*	317.079	

Convergence Angle	0	58	3.4900235
Scale Factor			1.000045791
Elevation Adjust. Factor			0.9999848333
Combined Adjust. Factor			1.0000306236

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	1.7794392
Longitude	90	20	13.5843900
Ellipsoid Height (M):	67.228		
Geoid Height (M):	-29.418		

Location Description

FROM THE POST OFFICE IN McDOUGAL, GO EAST ON HWY. 62 FOR 4.950 KM (3.08 MILES) TO THE STATION ON THE LEFT AT THE EDGE OF A CULTIVATED FIELD. THE STATION IS 16.10 METERS NORTH OF THE CENTERLINE OF HWY. 62 AND 1.39 METERS SOUTH OF A WITNESS POST AND A POWER POLE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	X 189 BM
Geodetic Azimuth	269 57 46.03103
Grid Azimuth	268 59 42.42781

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Cross Reference Job: R00119 and R00125

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110003	7/13/1994	AHTD	CLAY	62	R00084

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	233,918.4261	
Easting (M)	554,140.6710	
Elevation (M)*	100.587	
Northing (SFT)	767,447.3696	
Easting (SFT)	1,818,043.1848	
Elevation (SFT)*	330.009	

Convergence Angle	1	0	0.9117360
Scale Factor			1.000044693
Elevation Adjust. Factor			0.9999842149
Combined Adjust. Factor			1.0000289072

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	46.4852424
Longitude	90	16	51.7938960
Ellipsoid Height (M):	71.188		
Geoid Height (M):	-29.399		

Location Description

FROM THE JCT. OF HWY. 62 AND HWY. 139 IN POLLARD, GO WEST ON HWY. 62 FOR 1.609 KM (1.0 MILES) TO THE STATION ON THE RIGHT AT THE EDGE OF A CULTIVATED FIELD. THE STATION IS 21.7 METERS NORTH OF THE CENTERLINE OF HWY. 62, 16 METERS EAST OF A FIELD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF A 36" CONCRETE PIPE	252	13.40	44.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	110003A
Geodetic Azimuth	95 50 46.631671
Grid Azimuth	94 50 45.825963

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Cross Reference Job: R00119 and R00125

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110003A	7/13/1994	AHTD	CLAY	62	R00084

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	233,880.8321	
Easting (M)	554,584.0870	
Elevation (M)*	101.435	
Northing (SFT)	767,324.0300	
Easting (SFT)	1,819,497.9588	
Elevation (SFT)*	332.791	

Convergence Angle	1	0	11.2529799
Scale Factor	1.000044588		
Elevation Adjust. Factor	0.9999840818		
Combined Adjust. Factor	1.0000286691		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	45.0143832
Longitude	90	16	34.0223556
Ellipsoid Height (M):	72.038		
Geoid Height (M):	-29.397		

Location Description

FROM THE JCT. OF HWY. 62 AND HWY. 139 IN POLLARD, GO WEST ON HWY. 62 FOR 1.127 KM (0.70 MILES) TO THE STATION ON THE LEFT AT THE EDGE OF A CULTIVATED FIELD. THE STATION IS 18.4 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 7.0 METERS EAST OF THE CENTER OF A GRAVEL DRIVE TO A HOUSE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110003A" AND IS SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF A 24" CONCRETE PIPE	356	6.40	21.0
MK # 2	TELEPHONE JUNCTION BOX	82	1.85	6.1
MK # 3	NONE			

AZ Mark Station	110003
Geodetic Azimuth	275 50 57.18495
Grid Azimuth	274 50 45.82596

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Cross Reference Job: R00119 and R00125

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110004	7/13/1994	AHTD	CLAY	62	R00084

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	233,688.5371	
Easting (M)	557,897.7440	
Elevation (M)*	128.885	
Northing (SFT)	766,693.1421	
Easting (SFT)	1,830,369.5151	
Elevation (SFT)*	422.850	

Convergence Angle	1	1	28.5669689
Scale Factor	1.000044006		
Elevation Adjust. Factor	0.9999797741		
Combined Adjust. Factor	1.0000237793		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	36.8750928
Longitude	90	14	21.1574220
Ellipsoid Height (M):	99.501		
Geoid Height (M):	-29.384		

Location Description

FROM THE POST OFFICE IN PIGGOTT, GO WEST ON HWY. 62 FOR 7.04 KM (4.38 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.3 METERS NORTHEAST OF THE CENTERLINE OF HWY. 62 AND 0.48 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	110004A
Geodetic Azimuth	146 22 08.63460
Grid Azimuth	145 20 40.13581

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Cross Reference Job: R00119 and R00125

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110005	7/13/1994	AHTD	CLAY	62	R00084

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	230,878.2941	
Easting (M)	560,549.2730	
Elevation (M)*	113.240	
Northing (SFT)	757,473.2032	
Easting (SFT)	1,839,068.7398	
Elevation (SFT)*	371.522	

Convergence Angle	1	2	29.3012522
Scale Factor			1.000037491
Elevation Adjust. Factor			0.9999822293
Combined Adjust. Factor			1.0000197196

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	4.1724396
Longitude	90	12	36.7848936
Ellipsoid Height (M):	83.887		
Geoid Height (M):	-29.353		

Location Description

FROM THE POST OFFICE IN POLLARD, GO WEST ON HWY. 62 FOR 3.058 KM (1.90 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS SOUTH OF THE CENTERLINE OF HWY. 62 AND 0.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "110005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	328	11.30	37.1
MK # 2	4" PEACH TREE	265	22.60	74.1
MK # 3	NONE			

AZ Mark Station	Q 189 BM
Geodetic Azimuth	138 31 25.69054
Grid Azimuth	137 28 56.48401

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Cross Reference Job: R00119 and R00125

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110006	7/20/1999	AHTD	CLAY	90	100394

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	215,295.7680	
Easting (M)	553,422.4130	
Elevation (M)*	86.708	
Northing (SFT)	706,349.5322	
Easting (SFT)	1,815,686.7000	
Elevation (SFT)*	284.474	

Convergence Angle	0	59	36.5928545
Scale Factor	1.000005775		
Elevation Adjust. Factor	0.9999863929		
Combined Adjust. Factor	0.9999921678		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	42.8305896
Longitude	90	17	33.5861592
Ellipsoid Height (M):	58.333		
Geoid Height (M):	-28.375		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 0.29 KM (0.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.55 METERS NORTH OF THE CENTER OF 6TH STREET, 12.39 METERS SOUTHEAST OF THE SOUTHEAST RAIL, 8.62 METERSS EAST OF THE CENTER OF STATE HIGHWAY 90 (MAIN STREET) AND 0.64 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110006 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 334.184 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	183	13.49	44.3
MK # 2	RAILROAD CROSSING SWITCH STAND	340	8.81	28.9
MK # 3	NONE			

AZ Mark Station	110006A
Geodetic Azimuth	357 16 05.85487
Grid Azimuth	356 16 29.25896

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	AHTD PAR 1

Comments

Elevation by 3-wire from NGS Point Z 187

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110006A	7/20/1999	AHTD	CLAY	90	100394

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	215,629.2460
Easting (M)	553,400.7010
Elevation (M)*	90.829
Northing (SFT)	707,443.6179
Easting (SFT)	1,815,615.4665
Elevation (SFT)*	297.995
Convergence Angle	0 59 36.2215782
Scale Factor	1.000006398
Elevation Adjust. Factor	0.9999857462
Combined Adjust. Factor	0.9999921441

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 15 53.6601312
Longitude	90 17 34.2242016
Ellipsoid Height (M):	62.450
Geoid Height (M):	-28.379

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 0.63 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 27.20 METERS NORTH OF THE CENTER OF 3RD STREET, 9.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 90 (MAIN STREET), 5.55 METERS SOUTH OF THE CENTER OF A CONCRETE ENTRANCE TO A PAVED PARKING LOT, 0.90 METERS EAST OF THE EAST EDGE OF A CONCRETE SIDEWALK AND 0.83 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 334.184 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	180	19.50	64.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	110006
Geodetic Azimuth	177 16 05.47746
Grid Azimuth	176 16 29.25896

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	AHTD PAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110007	7/20/1999	AHTD	CLAY	90	100394

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	220,692.4920	
Easting (M)	553,324.2600	
Elevation (M)*	113.457	
Northing (SFT)	724,055.2842	
Easting (SFT)	1,815,364.6764	
Elevation (SFT)*	372.234	

Convergence Angle	0	59	36.4863803
Scale Factor	1.000016178		
Elevation Adjust. Factor	0.9999821952		
Combined Adjust. Factor	0.9999983729		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	37.9427436
Longitude	90	17	33.7691364
Ellipsoid Height (M):	85.033		
Geoid Height (M):	-28.456		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 5.76 KM (3.58 MI) TO THE STATION ON THE LEFT. THE STATION IS 58.011 METERS SOUTHEAST OF THE CENTER OF A CONCRETE HEADWALL, 42.85 METERS WEST-NORTHWEST OF THE JUCTION OF STATE HIGHWAY 90 AND COUNTY ROAD 475, 8.76 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.617 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHERN MOST ONE OF THREE WATER METERS	275	5.48	18.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	110007A
Geodetic Azimuth	307 32 04.22252
Grid Azimuth	306 32 27.64441

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	AHTD PAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110007A	7/20/1999	AHTD	CLAY	90	100394

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	221,026.8791	
Easting (M)	552,873.0380	
Elevation (M)*	113.162	
Northing (SFT)	725,152.3525	
Easting (SFT)	1,813,884.2922	
Elevation (SFT)*	371.266	

Convergence Angle	0	59	26.0979858
Scale Factor	1.000016862		
Elevation Adjust. Factor	0.9999822415		
Combined Adjust. Factor	0.9999991032		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	49.0428072
Longitude	90	17	51.6217056
Ellipsoid Height (M):	84.736		
Geoid Height (M):	-28.460		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 6.33 KM (3.93 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.60 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 90 AND 3.32 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "110007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVER FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.617 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	312	14.55	47.7
MK # 2	MOST WESTERLY IN LINE BRACE POST	84	5.30	17.4
MK # 3	NONE			

AZ Mark Station	110007
Geodetic Azimuth	127 31 53.65053
Grid Azimuth	126 32 27.64441

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	AHTD PAR 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110008A	7/20/1999	AHTD	CLAY	90	100394

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	221,409.3381
Easting (M)	549,385.8230
Elevation (M)*	120.541
Northing (SFT)	726,407.1367
Easting (SFT)	1,802,443.3210
Elevation (SFT)*	395.475

Convergence Angle	0	58	4.9174496
Scale Factor			1.000017750
Elevation Adjust. Factor			0.9999810835
Combined Adjust. Factor			0.9999988332

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	19	3.3823704	
Longitude	90	20	11.1313428	
Ellipsoid Height (M):	92.086			
Geoid Height (M):	-28.455			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 9.90 KM (6.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.50 METERS WEST OF THE EXTENDED CENTER OF A GRAVEL DRIVEWAY, 9.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 595.646 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	94	25.68	84.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	110008
Geodetic Azimuth	88 40 50.111831
Grid Azimuth	87 42 45.318074

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	AHTD PAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110009	7/20/1999	AHTD	CLAY	90	100394

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	223,145.3711	
Easting (M)	544,682.4060	
Elevation (M)*	102.186	
Northing (SFT)	732,102.7717	
Easting (SFT)	1,787,012.1937	
Elevation (SFT)*	335.255	

Convergence Angle	0	56	15.8774014
Scale Factor	1.000021444		
Elevation Adjust. Factor	0.9999839639		
Combined Adjust. Factor	1.0000054076		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	2.2325712
Longitude	90	23	18.5178552
Ellipsoid Height (M):	73.714		
Geoid Height (M):	-28.472		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 14.65 KM (9.10 MI) TO THE JUNCTION OF STATE HIGHWAY 141 ON THE RIGHT, CONTINUE WEST ON STATE HIGHWAY 90 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.89 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	99	10.63	34.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	110009A
Geodetic Azimuth	272 06 11.59293
Grid Azimuth	271 09 55.59638

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	AHTD PAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110009A	7/20/1999	AHTD	CLAY	90	100394

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	223,156.7890
Easting (M)	544,121.1030
Elevation (M)*	92.865
Northing (SFT)	732,140.2319
Easting (SFT)	1,785,170.6521
Elevation (SFT)*	304.675

Convergence Angle	0	56	2.7871743
Scale Factor			1.000021486
Elevation Adjust. Factor			0.9999854267
Combined Adjust. Factor			1.0000069124

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	20	2.9003856
Longitude	90	23	41.0135532
Ellipsoid Height (M):	64.394		
Geoid Height (M):	-28.471		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 90, LOCATED IN RECTOR, GO NORTH ON STATE HIGHWAY 90 FOR 14.65 KM (9.10 MI) TO THE JUNCTION OF STATE HIGHWAY 141 ON THE RIGHT, CONTINUE WEST ON STATE HIGHWAY 90 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.41 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 9.72 METERS NORTH OF THE CENTER OF STATE HIGHWAY 90 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.410 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF CMP	260	12.19	40.0
MK # 2	POWER POLE	130	31.49	103.3
MK # 3	NONE			

AZ Mark Station	110009
Geodetic Azimuth	92 05 58.264405
Grid Azimuth	91 09 55.596379

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	AHTD PAR 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110010	1/6/2004	AHTD	CLAY	CR 341	100528

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	236,899.6121	
Easting (M)	564,124.5360	
Elevation (M)*		
Northing (SFT)	777,228.1440	
Easting (SFT)	1,850,798.5819	
Elevation (SFT)*		

Convergence Angle	1	3	55.3895911
Scale Factor			1.000051297
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	27	17.3425824
Longitude	90	10	8.8411440
Ellipsoid Height (M):	66.066		
Geoid Height (M):	-28.633		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS NORTH 8.50 METERS OF THE CENTERLINE OF COUNTY ROAD 341 AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110010 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	233	25.70	84.3
MK # 2	TELEPHONE RISER	214	17.50	57.4
MK # 3				

AZ Mark Station	110010A
Geodetic Azimuth	268 39 40
Grid Azimuth	267 35 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	CNWM
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLMM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110010A	1/6/2004	AHTD	CLAY	CR 341	100528

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	236,877.9181	
Easting (M)	563,607.8400	
Elevation (M)*		
Northing (SFT)	777,156.9696	
Easting (SFT)	1,849,103.3884	
Elevation (SFT)*		

Convergence Angle	1	3	43.3084113
Scale Factor	1.000051268		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	27	16.9501104
Longitude	90	10	29.6027832
Ellipsoid Height (M):	79.136		
Geoid Height (M):	-28.634		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS EAST 44.7 METERS OF THE JUNCTION OF COUNTY ROAD 341 AND COUNTY ROAD 347 AND SOUTH 6.80 METERS OF THE CENTERLINE OF COUNTY ROAD 341 AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110010A 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	110010
Geodetic Azimuth	88 39 28
Grid Azimuth	87 35 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	CNWM
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLMM

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110011	1/6/2004	AHTD	CLAY	CR 347	100528

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	234,311.9087
Easting (M)	544,303.4589
Elevation (M)*	
Northing (SFT)	768,738.3205
Easting (SFT)	1,785,768.9314
Elevation (SFT)*	
Convergence Angle	0 56 11.2951594
Scale Factor	1.000045997
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	geoid 12a
Latitude	36 26 4.6415400
Longitude	90 23 26.3924880
Ellipsoid Height (M):	62.496
Geoid Height (M):	-28.724

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO CLAY COUNTY ROAD 347 AND TURN RIGHT ONTO COUNTY ROAD 347 AND GO 2.5 MILES TO THE STATION ON THE LEFT. THE STATION IS LOCATED AT THE APROX PI OF THE CURVE AND SOUTH 6.50 METERS OF THE CENTERLINE OF THE COUNTY ROAD AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110011 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN TO 0.25 METERS BELOW THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	110011A
Geodetic Azimuth	359 26 07
Grid Azimuth	358 22 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	CNWM
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLMM

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110011A	1/6/2004	AHTD	CLAY	CR 347	100528

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	240,470.9311	
Easting (M)	564,025.4910	
Elevation (M)*		
Northing (SFT)	788,945.0465	
Easting (SFT)	1,850,473.6317	
Elevation (SFT)*		

Convergence Angle	1	3	54.6269238
Scale Factor	1.000060004		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	29	13.2360684
Longitude	90	10	10.1517960
Ellipsoid Height (M):	65.193		
Geoid Height (M):	-28.661		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 0.30 MILES TO CLAY COUNTY ROAD# 341 AND TURN RIGHT ONTO COUNTY ROAD 341 AND GO 1.6 MILES TO CLAY COUNTY ROAD 347 AND TURN RIGHT ONTO COUNTY ROAD 347 AND GO 2.75 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS NORTHEAST 4.3 METERS OF THE CENTERLINE OF COUNTY ROAD 347 AND NORTHEAST 8.80 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110011A 2004" ON TOP OF A 1.22 MEETER IRON ROD DRIVEN 0.25 METERS BELOW THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	11" PEAR TREE	220	10.70	35.1
MK # 2				
MK # 3				

AZ Mark Station	110011
Geodetic Azimuth	179 26 07
Grid Azimuth	178 22 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	CNWM
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLMM

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110012	1/20/2004	AHTD	CLAY	62	100528

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	235,245.7041
Easting (M)	566,132.6460
Elevation (M)*	
Northing (SFT)	771,801.9475
Easting (SFT)	1,857,386.8561
Elevation (SFT)*	
Convergence Angle	1 4 41.5784081
Scale Factor	1.000047286
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 26 22.4800116
Longitude	90 8 49.4651580
Ellipsoid Height (M):	60.314
Geoid Height (M):	28.614

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 1.4 MILES TO THE STATION ON THE LEFT, SOUTH 4.30 METERS OF A FARM TURN IN, EAST 4.35 METERS OF THE CENTERLINE OF HIGHWAY 62, AND WEST 1.80 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110012 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF 18" CMP	236	4.00	13.1
MK # 2	FE CORNER	40	2.60	8.5
MK # 3				

AZ Mark Station	110012A
Geodetic Azimuth	182 37 23
Grid Azimuth	181 32 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	CNWM
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLMM

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110012A	1/20/2004	AHTD	CLAY	62	100528

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	234,489.0691
Easting (M)	566,112.2410
Elevation (M)*	
Northing (SFT)	769,319.5542
Easting (SFT)	1,857,319.9107
Elevation (SFT)*	
Convergence Angle	1 4 40.7692020
Scale Factor	1.000045516
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 25 57.9511632
Longitude	90 8 50.8557876
Ellipsoid Height (M):	58.786
Geoid Height (M):	28.608

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND THE WEST END OF THE ST. FRANCIS RIVER BRIDGE, IN ST. FRANCIS, GO WEST ON HIGHWAY 62 1.8 MILES TO THE STATION ON THE RIGHT, NORTH 5.0 METERS OF A FARM ROAD TURN IN, WEST 16.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST OF A 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "110012A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A DOUBLE BOX CULVERT	26	9.90	32.5
MK # 2				
MK # 3				

AZ Mark Station	110012
Geodetic Azimuth	2 37 22
Grid Azimuth	1 32 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	CNWM
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLMM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110013	2/19/2019	ARDOT	CLAY	62	101004

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	228,854.5808	0.0020
Easting (M)	565,896.4383	0.0020
Elevation (M)*		

Northing (SFT)	750,833.7372	
Easting (SFT)	1,856,611.8980	
Elevation (SFT)*		

Convergence Angle	1	4	33.2571777
Scale Factor	1.000032784		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid12B			
Latitude	36	22	55.3269648	
Longitude	90	9	3.7652832	
Ellipsoid Height (M):	56.138			0.0090
Geoid Height (M):	-28.609			0.0090

Location Description

THE STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 1, EAST OF PIGGOTT, SOUTH 26' OF HIGHWAY 62 AND NORTH 43' OF HIGHWAY 1. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "110013 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH HDWL UNDER 62	74	31.09	102.0
MK # 2				
MK # 3				

AZ Mark Station	110013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARPG
Ref Mon # 3	MOKE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110013A	2/19/2019	ARDOT	CLAY	1	101004

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	228,838.0825	0.0020
Easting (M)	566,314.3478	0.0020
Elevation (M)*		

Northing (SFT)	750,779.6090	
Easting (SFT)	1,857,982.9894	
Elevation (SFT)*		

Convergence Angle	1	4	43.0047406
Scale Factor			1.000032730
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid12B			
Latitude	36	22	54.5369448	
Longitude	90	8	47.0139900	
Ellipsoid Height (M):			55.797	0.0090
Geoid Height (M):			-28.608	0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 62, EAST OF PIGGOTT, GO NORTH ON HIGHWAY 1 0.25 MILES TO THE MARK ON THE RIGHT, SOUTH 16' OF THE C/L OF THE HGIHAWAY AND 20.6' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "110013A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16.6 WEST OF WEST END RCP	170	5.06	16.6
MK # 2	FENCE CORNER	233	18.89	62.0
MK # 3				

AZ Mark Station	110013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARPG
Ref Mon # 3	MOKE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110014	11/4/2020	ARDOT	CLAY	CR-109	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	222,458.6772	0.0020
Easting (M)	512,997.2578	0.0020
Elevation (M)*		
Northing (SFT)	729,849.8434	
Easting (SFT)	1,683,058.5033	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	19	54.9380496	
Longitude	90	44	29.2246152	
Ellipsoid Height (M):	57.589			0.0060
Geoid Height (M):	-28.464			0.0060

Convergence Angle	0	43	56.4542458
Scale Factor	1.000020981		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 & CR-109(VINEGAR HILL RD) IN REYNO, GO SOUTH ON SR-109 2.0 MILES, THEN TURN LEFT TO STAY ON CR-109 AND GO EAST 0.5 MILES TO STATION ON RIGHT. 18' SOUTH OF C/L CR-109. 18' EAST OF A FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "110014 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A GATE	210°	1.68	5.5
MK # 2	POWER POLE	70°	41.15	135.0
MK # 3				

AZ Mark Station	110014A
Geodetic Azimuth	90° 4 ' 9"
Grid Azimuth	89° 20 ' 13"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110014A	11/4/2020	ARDOT	CLAY	CR-109	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	222,462.5381	0.0020
Easting (M)	513,330.8714	0.0020
Elevation (M)*		
Northing (SFT)	729,862.5104	
Easting (SFT)	1,684,153.0339	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	19	54.9247548	
Longitude	90	44	15.8474112	
Ellipsoid Height (M):	57.702			0.0060
Geoid Height (M):	-28.465			0.0060

Convergence Angle	0	44	4.2384291
Scale Factor	1.000020981		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 & CR-109(VINEGAR HILL RD) IN REYNO, GO SOUTH ON SR-109 2.0 MILES, THEN TURN LEFT TO STAY ON CR-109 AND GO EAST 0.7 MILES TO STATION ON RIGHT. 15.4' SOUTH OF C/L CR-109. THE MARK IS A STANDARD 2½" CAP STAMPED "110014A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE / TRANS	55°	49.23	161.5
MK # 2	NW CORNER OF A BUILDING	115°	35.20	115.5
MK # 3				

AZ Mark Station	110014
Geodetic Azimuth	270° 4 ' 17"
Grid Azimuth	269° 20 ' 13"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110015	11/4/2020	ARDOT	CLAY	CR-116	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	224,892.2928	0.0020
Easting (M)	515,449.8837	0.0020
Elevation (M)*		
Northing (SFT)	737,834.1306	
Easting (SFT)	1,691,105.1601	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	21	12.8541384	
Longitude	90	42	49.6197900	
Ellipsoid Height (M):	59.277			0.0070
Geoid Height (M):	-28.515			0.0070

Convergence Angle	0	44	54.4142067
Scale Factor	1.000025985		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 0.5 MILES TO CR-125. THEN GO SOUTH 3.5 MILES TO CR-116. THEN GO WEST 1.0 MILES TO TO STAY ON CR-116. THEN GO SOUTH 0.5 MILES TO TO STAY ON CR-116. THEN GO WEST 0.7 MILES TO TO STAY ON CR-116 TO STATION ON RIGHT NEXT TO A WELL PUMP. 64' NORTH OF C/L CR-116. 15' EAST OF C/L FARM RD. THE MARK IS A STANDARD 2½" CAP STAMPED "110015 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	120	18.75	61.5
MK # 2	WELL HEAD	110	3.93	12.9
MK # 3				

AZ Mark Station	110015A
Geodetic Azimuth	86° 35 ' 31"
Grid Azimuth	85° 50 ' 37"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110015A	11/4/2020	ARDOT	CLAY	CR-116	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	224,927.7244	0.0020
Easting (M)	515,937.4425	0.0020
Elevation (M)*		

Northing (SFT)	737,950.3758	
Easting (SFT)	1,692,704.7593	
Elevation (SFT)*		

Convergence Angle	0	45	5.8025883
Scale Factor	1.000026046		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	21	13.7964492	
Longitude	90	42	30.0487320	
Ellipsoid Height (M):	59.449			0.0070
Geoid Height (M):	-28.517			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 0.5 MILES TO CR-125. THEN GO SOUTH 3.5 MILES TO CR-116. THEN GO WEST 1.0 MILES TO TO STAY ON CR-116. THEN GO SOUTH 0.5 MILES TO TO STAY ON CR-116. THEN GO WEST 1.0 MILES TO TO STAY ON CR-116 TO STATION ON LEFT. 36' SOUTH OF C/L CR-116. 24' EAST OF C/L CR-113. THE MARK IS A STANDARD 2½" CAP STAMPED "110015A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE / GUY	320	21.03	69.0
MK # 2	EAST END OF CULVERT	330	5.55	18.2
MK # 3				

AZ Mark Station	110015
Geodetic Azimuth	266° 35 ' 43"
Grid Azimuth	265° 50 ' 37"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110016	11/4/2020	ARDOT	CLAY	CR-125	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	226,964.0772	0.0020
Easting (M)	518,715.2157	0.0020
Elevation (M)*		

Northing (SFT)	744,631.3099	
Easting (SFT)	1,701,818.1702	
Elevation (SFT)*		

Convergence Angle	0	46	11.2623459
Scale Factor	1.000030322		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	22	18.6566268	
Longitude	90	40	37.5554244	
Ellipsoid Height (M):	59.455			0.0050
Geoid Height (M):	-28.564			0.0050

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 0.5 MILES TO CR-125. THEN GO SOUTH 2.7 MILES TO STATION ON LEFT. 61' EAST OF C/L CR-125. 29' NORTH OS A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "110016 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	100	24.80	81.4
MK # 2	POWER POLE	210	4.90	16.1
MK # 3				

AZ Mark Station	110016A
Geodetic Azimuth	357° 3 ' 54"
Grid Azimuth	356° 17 ' 43"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110016A	11/4/2020	ARDOT	CLAY	CR-110	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	227,333.4220	0.0020
Easting (M)	518,691.3004	0.0020
Elevation (M)*		

Northing (SFT)	745,843.0687	
Easting (SFT)	1,701,739.7081	
Elevation (SFT)*		

Convergence Angle	0	46	10.8199519
Scale Factor	1.000031124		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	22	30.6480252
Longitude	90	40	38.3156832
Ellipsoid Height (M):	59.747		0.0060
Geoid Height (M):	-28.573		0.0060

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 0.5 MILES TO CR-125. THEN GO SOUTH 2.5 MILES TO STATION ON RIGHT. 28.6' WEST OF C/L CR-125. THE MARK IS A STANDARD 2½" CAP STAMPED "110016A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SERVICE POLE	340	5.20	17.1
MK # 2	POWER POLE	65	16.00	52.5
MK # 3				

AZ Mark Station	110016
Geodetic Azimuth	177° 3 ' 54"
Grid Azimuth	176° 17 ' 43"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110017	11/4/2020	ARDOT	CLAY	N/A	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	228,995.1023	0.0020
Easting (M)	521,184.4727	0.0020
Elevation (M)*		

Northing (SFT)	751,294.7648	
Easting (SFT)	1,709,919.3908	
Elevation (SFT)*		

Convergence Angle	0	47	9.5473459
Scale Factor	1.000034693		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	23	23.4520908
Longitude	90	38	57.3920160
Ellipsoid Height (M):	55.737		0.0070
Geoid Height (M):	-28.615		0.0070

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 4.0 MILES TO CR-131. THEN GO SOUTH 1.0 MILES to CR-110. THEN GO EAST 0.5 MILES TO A DIRT FARM ROAD. THEN GO SOUTH 0.5 MILES TO STATION ON RIGHT. 15' NORTH OF C/L EAST/WEST FARM ROAD. 13.8' NORTH OF C/L NORTH/SOUTH DITCH. THE MARK IS A STANDARD 2½" CAP STAMPED "110017 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	110017A
Geodetic Azimuth	90° 8 ' 14"
Grid Azimuth	89° 21 ' 4"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110017A	11/4/2020	ARDOT	CLAY	N/A	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	229,000.2562	0.0020
Easting (M)	521,639.5703	0.0020
Elevation (M)*		

Northing (SFT)	751,311.6739	
Easting (SFT)	1,711,412.4902	
Elevation (SFT)*		

Convergence Angle	0	47	20.1737787
Scale Factor	1.000034691		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	23	23.4163680
Longitude	90	38	39.1303752
Ellipsoid Height (M):	56.113	0.0050	
Geoid Height (M):	-28.615	0.0050	

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 4.0 MILES TO CR-131. THEN GO SOUTH 1.0 MILES to CR-110. THEN GO EAST 0.5 MILES TO A DIRT FARM ROAD. THEN GO SOUTH 0.5 MILES TO ANOTHER DIRT FARM ROAD. THEN GO EAST 0.2 MILES TO STATION ON LEFT. 10' NORTH OF C/L EAST/WEST FARM ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "110017A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A CULVERT	90	7.30	24.0
MK # 2				
MK # 3				

AZ Mark Station	110017
Geodetic Azimuth	270° 8 ' 24"
Grid Azimuth	269° 21 ' 4"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110018	11/4/2020	ARDOT	CLAY	CR-135	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	232,086.8508	0.0010
Easting (M)	521,931.5487	0.0020
Elevation (M)*		

Northing (SFT)	761,438.2763	
Easting (SFT)	1,712,370.4227	
Elevation (SFT)*		

Convergence Angle	0	47	27.9853709
Scale Factor	1.000041631		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	25	3.4084200	
Longitude	90	38	25.7060688	
Ellipsoid Height (M):	60.006			0.0040
Geoid Height (M):	-28.698			0.0040

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 3.1 MILES TO CR-135. THEN GO NORTH 0.4 MILES TO STATION ON RIGHT NEAR A WELL PUMP. 30.6' EAST OF C/L CR-135. 58.6' SOUTH OF A FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "110018 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WELL HEAD	75	6.61	21.7
MK # 2				
MK # 3				

AZ Mark Station	110018A
Geodetic Azimuth	262° 35 ' 27"
Grid Azimuth	261° 47 ' 59"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110018A	11/4/2020	ARDOT	CLAY	ARM RD	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	232,027.4111	0.0020
Easting (M)	521,519.0820	0.0020
Elevation (M)*		
Northing (SFT)	761,243.2646	
Easting (SFT)	1,711,017.1882	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	25	1.6647636	
Longitude	90	38	42.2930868	
Ellipsoid Height (M):	60.569			0.0040
Geoid Height (M):	-28.696			0.0040

Convergence Angle	0	47	18.3333996
Scale Factor	1.000041508		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

110018A TO REACH THE STATION MARK FROM THE JCT OF US-67 & US-62 IN CORNING, GO SOUTH 3.1 MILES TO CR-135. THEN GO NORTH 0.3 MILES TO A EAST/WEST FARM RD. THEN GO WEST 0.2 MILES TO STATION ON LEFT NEAR A WELL PUMP. 15.5' SOUTH OF C/L EAST/WEST FARM ROAD. 14.5' EAST OF A NORTH/SOUTH FARM RD. THE MARK IS A STANDARD 2½" CAP STAMPED "110018A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	85	9.60	31.5
MK # 2	WATER HYDRANT	160	3.28	10.8
MK # 3				

AZ Mark Station	110018
Geodetic Azimuth	82° 35 ' 17"
Grid Azimuth	81° 47 ' 59"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110019	11/3/2020	ARDOT	CLAY	ARM RD	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	233,875.2262	0.0020
Easting (M)	524,341.1305	0.0020
Elevation (M)*		

Northing (SFT)	767,305.6380	
Easting (SFT)	1,720,275.8590	
Elevation (SFT)*		

Convergence Angle	0	48	24.8474362
Scale Factor	1.000045687		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	26	0.3288624
Longitude	90	36	47.9879892
Ellipsoid Height (M):	60.570	0.0070	
Geoid Height (M):	-28.751	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 NORTH OF CORNING, GO WEST ON SR-328 1.0 MILES TO CR-143. THEN GO SOUTH 1.5 MILES TO A EAST/WEST FARM ROAD NEXT TO A POWER SUBSTATION. THEN GO WEST 0.5 MILES TO STATION ON LEFT NEAR A WELL PUMP. 25' SOUTH OF C/L EAST/WEST FARM RD. THE MARK IS A STANDARD 2½" CAP STAMPED "110019 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WELL HEAD	250	8.08	26.5
MK # 2				
MK # 3				

AZ Mark Station	110019A
Geodetic Azimuth	4° 0 ' 34"
Grid Azimuth	3° 12 ' 9"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110019A	11/3/2020	ARDOT	CLAY	ARM RD	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	234,281.7721	0.0010
Easting (M)	524,363.8771	0.0020
Elevation (M)*		

Northing (SFT)	768,639.4473	
Easting (SFT)	1,720,350.4868	
Elevation (SFT)*		

Convergence Angle	0	48	25.5125490
Scale Factor	1.000046637		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	26	13.5057336
Longitude	90	36	46.8449856
Ellipsoid Height (M):	60.817	0.0060	
Geoid Height (M):	-28.762	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 NORTH OF CORNING, GO WEST ON SR-328 1.0 MILES TO CR-143. THEN GO SOUTH 1.5 MILES TO A EAST/WEST FARM ROAD NEXT TO A POWER SUBSTATION. THEN GO WEST 0.5 MILES TO A NORTH/SOUTH FARM ROAD. THEN GO NORTH 0.2 MILES TO STATION ON RIGHT NEAR A WELL PUMP. 11' EAST OF C/L NORTH/SOUTH FARM ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "110019A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WELL HEAD	20	13.26	43.5
MK # 2				
MK # 3				

AZ Mark Station	110019
Geodetic Azimuth	184° 0 ' 34"
Grid Azimuth	183° 12 ' 9"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110020	11/3/2020	ARDOT	CLAY	US-67	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	236,057.4197	0.0020
Easting (M)	526,829.1338	0.0020
Elevation (M)*		
Northing (SFT)	774,465.0511	
Easting (SFT)	1,728,438.5831	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	27	9.9648792	
Longitude	90	35	6.8552268	
Ellipsoid Height (M):	62.126			0.0060
Geoid Height (M):	-28.807			0.0060

Convergence Angle	0	49	23.6965025
Scale Factor	1.000050754		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 NORTH OF CORNING, GO SOUTH ON US-67 0.1 MILES TO STATION ON RIGHT. 36' WEST OF C/L US-67. 34' EAST OF C/L PAVED SIDE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "110020 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	18" CMP CUS	175	25.00	82.0
MK # 2	POWER POLE+TRANS	290	32.92	108.0
MK # 3				

AZ Mark Station	110020A
Geodetic Azimuth	25° 4 ' 42"
Grid Azimuth	24° 15 ' 18"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110020A	11/3/2020	ARDOT	CLAY	US-67	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	236,375.9033	0.0020
Easting (M)	526,972.6342	0.0020
Elevation (M)*		

Northing (SFT)	775,509.9427	
Easting (SFT)	1,728,909.3840	
Elevation (SFT)*		

Convergence Angle	0	49	27.1563539
Scale Factor	1.000051510		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	27	20.2285872	
Longitude	90	35	0.9094344	
Ellipsoid Height (M):	62.649			0.0060
Geoid Height (M):	-28.815			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 NORTH OF CORNING, GO NORTH ON US-67 0.05 MILES TO STATION ON LEFT. 41.5' WEST OF C/L US-67. THE MARK IS A STANDARD 2½" CAP STAMPED "110020A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	255	17.53	57.5
MK # 2	LIGHT POLE	345	13.71	45.0
MK # 3				

AZ Mark Station	110020
Geodetic Azimuth	205° 4 ' 45"
Grid Azimuth	204° 15 ' 18"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110021	11/3/2020	ARDOT	CLAY	US-67	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	238,668.5584	0.0010
Easting (M)	529,365.2261	0.0020
Elevation (M)*		

Northing (SFT)	783,031.7620	
Easting (SFT)	1,736,759.0793	
Elevation (SFT)*		

Convergence Angle	0	50	23.8450023
Scale Factor	1.000056980		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	28	33.4676172	
Longitude	90	33	23.4893736	
Ellipsoid Height (M):	61.471			0.0060
Geoid Height (M):	-28.864			0.0060

Location Description

TO REACH THE STATION MARK FROM US-67 @ AR/MO STATE LINE, GO SOUTH ON US-67 1.9 MILES TO STATION ON LEFT. 30.5' EAST OF C/L US-67. 104' SOUTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "110021 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	45	21.80	71.5
MK # 2				
MK # 3				

AZ Mark Station	110021A
Geodetic Azimuth	44° 40 ' 27"
Grid Azimuth	43° 50 ' 3"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110021A	11/3/2020	ARDOT	CLAY	US-67	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	239,010.7584	0.0020
Easting (M)	529,693.7759	0.0020
Elevation (M)*		
Northing (SFT)	784,154.4632	
Easting (SFT)	1,737,836.9964	
Elevation (SFT)*		

Convergence Angle	0	50	31.6411346	
Scale Factor	1.000057809			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	28	44.4109296	
Longitude	90	33	10.0916352	
Ellipsoid Height (M):	63.109			0.0060
Geoid Height (M):	-28.870			0.0060

Location Description

TO REACH THE STATION MARK FROM US-67 @ AR/MO STATE LINE, GO SOUTH ON US-67 1.7 MILES TO STATION ON RIGHT. 30.9' WEST OF C/L US-67. THE MARK IS A STANDARD 2½" CAP STAMPED "110021A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	36" OAK TREE	27	49.07	161.0
MK # 2				
MK # 3				

AZ Mark Station	110021
Geodetic Azimuth	224° 40 ' 35"
Grid Azimuth	223° 50 ' 3"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110022	11/3/2020	ARDOT	CLAY	CR-278	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	241,190.0519	0.0020
Easting (M)	530,597.0634	0.0020
Elevation (M)*		

Northing (SFT)	791,304.3619	
Easting (SFT)	1,740,800.5322	
Elevation (SFT)*		

Convergence Angle	0	50	53.5068260
Scale Factor			1.000063194
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	29	54.6668592	
Longitude	90	32	32.5152060	
Ellipsoid Height (M):			60.442	0.0080
Geoid Height (M):			-28.914	0.0080

Location Description

TO REACH THE STATION MARK FROM US-67 @ AR/MO STATE LINE, GO WEST ON CR-278 (STATE LINE RD.) 0.2 MILES TO STATION ON RIGHT, NEAR SOUTHWEST CORNER OF A POND. 15.3' NORTH OF C/L CR-278. THE MARK IS A STANDARD 2½" CAP STAMPED "110022 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	105	25.00	82.0
MK # 2	FENCE CORNER	30	7.38	24.2
MK # 3				

AZ Mark Station	110022A
Geodetic Azimuth	270° 8 ' 9"
Grid Azimuth	269° 17 ' 16"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110022A	11/3/2020	ARDOT	CLAY	CR-278	100512,101172

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	241,185.0402	0.0020
Easting (M)	530,193.9881	0.0020
Elevation (M)*		
Northing (SFT)	791,287.9194	
Easting (SFT)	1,739,478.1093	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	29	54.6975636	
Longitude	90	32	48.7116816	
Ellipsoid Height (M):	61.657			0.0080
Geoid Height (M):	-28.915			0.0080

Convergence Angle	0	50	44.0821110
Scale Factor	1.000063196		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

110022A TO REACH THE STATION MARK FROM US-67 @ AR/MO STATE LINE, GO WEST ON CR-278 (STATE LINE RD.) 0.4 MILES TO STATION ON RIGHT. 16' NORTH OF C/L CR-278. 82' WEST OF A NORTH FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "110022A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	110022
Geodetic Azimuth	90° 7 ' 60"
Grid Azimuth	89° 17 ' 16"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110023	9/13/2021	ARDOT	Clay	328	101121

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	235,899.2943	0.0030
Easting (M)	518,667.9896	0.0040
Elevation (M)*		
Northing (SFT)	773,946.2680	
Easting (SFT)	1,701,663.2292	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	36	27	8.5172472	
Longitude	90	40	34.6311372	
Ellipsoid Height (M):	60.787			0.0160
Geoid Height (M):	-28.803			0.0160

Convergence Angle	0	46	12.9639860
Scale Factor	1.000050647		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 5.1 miles to Clay Co. Rd. 176. Go South/Left on Clay Co. Rd. 176 for 0.2 miles to the station on the left. The station is 2.0 ft. West of a witness post. It is 17.50 ft. East of the center of Clay Co. Rd. 176, and it is 2.6 ft. west of a power pole. The station mark is a 2 ½ in. cap stamped "110023 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	85	1.00	3.3
MK # 2				
MK # 3				

AZ Mark Station	110023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MODX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110023A	9/13/2021	ARDOT	Clay	328	101121

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	235,479.1151	0.0030
Easting (M)	518,679.2763	0.0040
Elevation (M)*		
Northing (SFT)	772,567.7301	
Easting (SFT)	1,701,700.2590	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	36	26	54.8828016	
Longitude	90	40	34.4047872	
Ellipsoid Height (M):	60.203	0.0160		
Geoid Height (M):	-28.791	0.0160		

Convergence Angle	0	46	13.0956989
Scale Factor	1.000049646		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 5.1 miles to Clay Co. Rd. 176. Go South/Left on Clay Co. Rd. 176 for 0.4 miles to the station on the left. The station is 3.70 ft. South of a witness post. It is 23.70 ft. East of the center of Clay Co. Rd. 176, it is 3.30 ft. South of a power pole, and 82.02 Ft. West of a wellhead. The station mark is a 2 ½ in. cap stamped "110023A 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	6	1.00	3.3
MK # 2	Wellhead	82	25.00	82.0
MK # 3				

AZ Mark Station	110023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MODX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110024	9/13/2021	ARDOT	Clay	328	101121

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	236,521.4126	0.0030
Easting (M)	520,673.4754	0.0030
Elevation (M)*		
Northing (SFT)	775,987.3345	
Easting (SFT)	1,708,242.8939	
Elevation (SFT)*		

Convergence Angle	0	47	0.0199503
Scale Factor	1.000052071		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	27	27.8150616
Longitude	90	39	13.7649492
Ellipsoid Height (M):	62.214		0.0160
Geoid Height (M):	-28.823		0.0160

Location Description

From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 3.8 miles to Clay Co. Rd. 191. Go North/Right on Clay Co. Rd. 191 for 0.1 miles to the station on the left. The station is 3.0 ft. south of a witness post. It is 31.20 ft. West of the center of Clay Co. Rd 191, and 32.40 ft. southwest of center of field entrance. The station mark is a 2 ½ in. cap stamped "110024 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	178	39.00	128.0
MK # 2	Wellhead	145	38.00	124.7
MK # 3				

AZ Mark Station	110024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MODX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110024A	9/13/2021	ARDOT	Clay	328	101121

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	236,853.8448	0.0030
Easting (M)	520,667.7555	0.0040
Elevation (M)*		
Northing (SFT)	777,077.9891	
Easting (SFT)	1,708,224.1278	
Elevation (SFT)*		

Convergence Angle	0	46	59.9925017
Scale Factor	1.000052870		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	27	38.6007624
Longitude	90	39	13.8121200
Ellipsoid Height (M):	60.030	0.0160	
Geoid Height (M):	-28.832	0.0160	

Location Description

From the junction of Hwy. 67 and Hwy. 328 in Corning. Go West/Left on Hwy. 328 for 3.8 miles to Clay Co. Rd. 191. Go North/Right on Clay Co. Rd. 191 for 0.3 miles to the station on the left. The station is 2.0 ft. West of a witness post. It is 30.50 ft. West of the center of Clay Co. Rd 191, and 156.00 ft. Northeast of a wellhead. The station mark is a 2 ½ in. cap stamped "110024A 2021" set on top of a 5/8" in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Wellhead	194	47.50	155.8
MK # 2				
MK # 3				

AZ Mark Station	110024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MODX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110025	3/13/2024	ARDOT	CLAY	141	10X543

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	218,408.4554	0.0020
Easting (M)	539,804.7556	0.0010
Elevation (M)*	94.188	0.0112
Northing (SFT)	716,561.7408	
Easting (SFT)	1,771,009.4357	
Elevation (SFT)*	309.014	

Convergence Angle	0	54	20.3394856
Scale Factor	1.000012123		
Elevation Adjust. Factor	0.9999852191		
Combined Adjust. Factor	0.9999973419		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	17	31.1220744
Longitude	90	26	37.0710240
Ellipsoid Height (M):	65.735		0.0100
Geoid Height (M):	-28.448		

Location Description

From the intersection of Hwy 135 and Highway 141 just North West of Lafe, Clay County Arkansas, travel North East along State Highway 141 for 8.0 miles to the station on the right. The Station is a standard 2.5 inch AHTD GPS cap stamped 110025 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 42 feet (12.80 Meters) East of the centerline of Arkansas State Highway 141 and 13 feet (3.96 Meters) North of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	0	13.00	42.7
MK # 2	Center Line	90	42.00	137.8
MK # 3				

AZ Mark Station	110025A
Geodetic Azimuth	270 33 15
Grid Azimuth	269 38 59.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

ELEV WAS EST BY HOLDING STATIC DERIVED ELEV AT GPS 110025A AND RUNNING DIGITAL LEVELS TO GPS 110025. BY CREW S5101 IN MARCH, 2024 DURING JOB 10X543.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110025A	3/13/2024	ARDOT	CLAY	141	10X543

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	218,405.9812	0.0020
Easting (M)	539,399.9135	0.0010
Elevation (M)*	91.595	0.0000
Northing (SFT)	716,553.6233	
Easting (SFT)	1,769,681.2162	
Elevation (SFT)*	300.507	

Convergence Angle	0	54	10.8989566
Scale Factor	1.000012131		
Elevation Adjust. Factor	0.9999856260		
Combined Adjust. Factor	0.9999977568		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	17	31.2491112
Longitude	90	26	53.2946760
Ellipsoid Height (M):	63.146		0.0100
Geoid Height (M):	-28.448		

Location Description

From the intersection of Hwy 135 and Highway 141 just North West of Lafe, Clay County Arkansas, travel North East along State Highway 141 for 8.0 miles to county road 276 on the left then travel .20 of a mile to the station on the left. The Station is a standard 2.5 inch AHTD GPS cap stamped 110025A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is South of the centerline of Clay county road 276 and 5 feet (1.52 meters) North of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	110	31.00	101.7
MK # 2	Well Head	220	47.00	154.2
MK # 3	Fence Corner	275	52.00	170.6

AZ Mark Station	110025
Geodetic Azimuth	90 33 15
Grid Azimuth	89 38 59.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

ELEV WAS EST BY STATIC OBS HOLDING NGS BM A 190. BY CREW S5101 IN MARCH, 2024 DURING JOB 10X543.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
11B AZ RESET	9/5/1996	AHTD	CONWAY	N/A	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	108,783.8451	
Easting (M)	334,095.4480	
Elevation (M)*	185.959	
Northing (SFT)	356,901.6651	
Easting (SFT)	1,096,111.4823	
Elevation (SFT)*	610.100	

Convergence Angle	0	25	18.2191430
Scale Factor	0.999947185		
Elevation Adjust. Factor	0.9999708178		
Combined Adjust. Factor	0.9999180044		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	42.1212492
Longitude	92	43	29.0761608
Ellipsoid Height (M):	156.883		
Geoid Height (M):	-29.076		

Location Description

TO REACH THE STATION FROM THE NORTH END OF THE HIGHWAY 95 BRIDGE OVER INTERSTATE 40 GO NORTHERLY ON HWY-95 FOR 14.65 KM. (9.10 MI.) TO THE MAIN CROSSROADS IN THE SMALL TOWN OF ST. VINCENT. CONTINUE AHEAD (NORTHERLY) ON HWY-95 FOR 1.21 KM. (0.75 MI.) TO A PAVED ROAD ON THE RIGHT LEADING TO AN OLD U.S. AIR FORCE MISSLE SITE. TURN RIGHT AND GO EASTERLY ON THE PAVED ROAD FOR 0.59 KM. (0.37 MI.) TO A WIRE FENCE CROSSING THE ROAD AND THE STATION ON THE LEFT. 13.35 METERS NORTH OF THE NORTH EDGE OF THE PAVED ROAD, 10.45 METERS SOUTH OF A NORTH-SOUTH, EAST-WEST FENCE CORNER AND 0.60 METERS WEST OF A WITNESS POST SET NEAR A NORTH-SOUTH FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "11B AZ MK RESET 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	0.080 METER PIPE PROJECTING 0.80 METER S	27	4.00	13.1
MK # 2	METAL PIPE FENCE CORNER POST	348	10.45	34.3
MK # 3	NONE			

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	D 293
Ref Mon # 2	P 291
Ref Mon # 3	M 49 BM OFFSET

Comments

ELEVATION BY 3-WIRE USING U.S.A.F. BM NUMBER 11B AZ MK. ELEVATION = 191.231 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120001	5/22/1990	AHTD	CLEBURNE	25	5933

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	151,207.2910
Easting (M)	418,231.3120
Elevation (M)*	
Northing (SFT)	496,085.9206
Easting (SFT)	1,372,147.2295
Elevation (SFT)*	

Convergence Angle	0	7	1.9945560
Scale Factor			0.999937834
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	41	45.9884832
Longitude	91	47	54.7977516
Ellipsoid Height (M):	336.592		
Geoid Height (M):	-28.308		

Location Description

THE STATION IS 54 FEET NORTH OF THE CENTERLINE OF HWY. 25, 32 FEET SOUTH OF SPINKS ROAD AND 1.5 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 14" PECAN	3	20.75	68.1
MK # 2	NBC IN TOP OF FENCE CORNER POST	194	6.79	22.3
MK # 3	NBC IN TOP OF FENCE CORNER POST	316	2.93	9.6

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMOND
Ref Mon # 2	BATESVILLE
Ref Mon # 3	SALADO

Comments

Old point number 90120001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120002	5/31/1995	AHTD	CLEBURNE	263	050228

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	145,027.8189
Easting (M)	394,774.2820
Elevation (M)*	272.586
Northing (SFT)	475,812.1025
Easting (SFT)	1,295,188.6235
Elevation (SFT)*	894.309

Convergence Angle	0	2	0.8744184
Scale Factor			0.999936417
Elevation Adjust. Factor			0.9999572242
Combined Adjust. Factor			0.9998936439

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	38	26.0308716
Longitude	92	3	27.7240068
Ellipsoid Height (M):	244.175		
Geoid Height (M):	-28.293		

Location Description

FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO, GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 NORTH, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.35 KM (2.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.0 METERS NORTH OF THE CENTER OF HWY. 263 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002" SET ON TOP OF A 3/4" REBAR 0.60 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	110	9.35	30.7
MK # 2	GUY POLE	170	21.30	69.9
MK # 3				

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120002-1	5/31/1995	AHTD	CLEBURNE	263	005914

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	145,027.4900	
Easting (M)	394,774.2000	
Elevation (M)*	272.468	
Northing (SFT)	475,811.0234	
Easting (SFT)	1,295,188.3545	
Elevation (SFT)*	893.922	

Convergence Angle	0	2	0.8763101
Scale Factor			0.999936417
Elevation Adjust. Factor			0.9999572427
Combined Adjust. Factor			0.9998936624

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	38	26.0201976
Longitude	92	3	27.7272576
Ellipsoid Height (M):	245.202		
Geoid Height (M):	-27.384		

Location Description

FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO, GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 NORTH, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.35 KM (2.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.0 METERS NORTH OF THE CENTER OF HWY. 263 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002" SET ON TOP OF A 3/4" REBAR 0.60 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	110	9.35	30.7
MK # 2	GUY POLE	170	21.30	69.9
MK # 3	NONE			

AZ Mark Station	120002A
Geodetic Azimuth	104 25 44.59193
Grid Azimuth	104 27 45.47028

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT 1990
Ref Mon # 2	ALMOND 1934
Ref Mon # 3	5 JWO AND 6 JWO (BM'S)

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120002A	5/31/1995	AHTD	CLEBURNE	263	005914

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	144,963.6109	
Easting (M)	395,023.2260	
Elevation (M)*	262.993	
Northing (SFT)	475,601.4468	
Easting (SFT)	1,296,005.3673	
Elevation (SFT)*	862.836	

Convergence Angle	0	1	55.1153453
Scale Factor			0.999936407
Elevation Adjust. Factor			0.9999587295
Combined Adjust. Factor			0.9998951392

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	38	23.9520444
Longitude	92	3	17.8269768
Ellipsoid Height (M):	234.701		
Geoid Height (M):	-28.292		

Location Description

FROM THE JCT. OF HWY. 25 AND HWY. 92 IN THE SMALL VILLAGE OF DRASCO, GO WEST ON HWY. 92 FOR 11.26 KM (7.0 MILES) TO THE JCT. WITH HWY. 263 ON THE RIGHT, TURN RIGHT AND NORTH ON HWY. 263 AND GO 4.265 KM (2.65 MILES) TO THE STATION ON THE RIGHT NEAR A PULL-OFF GOING INTO A CLEARCUT AREA. THE STATION IS 9.90 METERS NORTH OF THE CENTERLINE OF HWY. 263, 8.40 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "120002A" SET ON TOP OF A 3/4" REBAR 0.601 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	267	3.95	13.0
MK # 2	8" PINE TREE	235	6.55	21.5
MK # 3	18" METAL CULVERT	277	17.35	56.9

AZ Mark Station	120002
Geodetic Azimuth	284 25 50.35886
Grid Azimuth	284 27 45.47028

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT 1990
Ref Mon # 2	ALMOND 1934
Ref Mon # 3	5 JWO AND 6 JWO (BM'S)

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120003	11/29/1995	AHTD	CLEBURNE	25	001657, 050216, 012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	116,697.4642	0.0030
Easting (M)	380,943.8114	0.0030
Elevation (M)*	184.329	
Northing (SFT)	382,864.9305	
Easting (SFT)	1,249,813.1546	
Elevation (SFT)*	604.753	

Convergence Angle	0	7	19.3860843
Scale Factor			0.999941947
Elevation Adjust. Factor			0.9999710736
Combined Adjust. Factor			0.9999130223

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	23	6.1432224
Longitude	92	12	35.0851608
Ellipsoid Height:			155.947
Grid Northing (Meters)			116,697.9301
Grid Easting (Meters)			380,943.9290

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	23	6.1280952	
Longitude	92	12	35.0897796	
Ellipsoid Height (M):			156.639	0.0060
Geoid Height (M):			-27.690	0.0060

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 0.64 KM. (0.40 MI.) TO THE STATION ON THE LEFT. 10.82 METERS NORTHWEST OF THE CENTER OF HWY-25, 1.40 METERS SOUTHEAST OF A BARBED WIRE FENCE AND 1.14 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120003 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	155	21.20	69.6
MK # 2	GUY POLE	240	9.95	32.6
MK # 3	WOODEN FENCE POST	48	25.65	84.2

AZ Mark Station	120003A
Geodetic Azimuth	55 16 14.00639
Grid Azimuth	55 23 33.36393

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC) MAY 1940
Ref Mon # 2	ARBT, (SC)92230001
Ref Mon # 3	P777, (SC)120009

Comments

PREVIOUS ELEV. (604.7465 SURV. FT.) BASED ON Digital Levels ran from NGS mark T 68 by crew S5104 in Sept 2009.
UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM T 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120003A	11/29/1995	AHTD	CLEBURNE	25	001657, 050216, 012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	117,017.4711	0.0030
Easting (M)	381,407.5584	0.0030
Elevation (M)*	189.489	

Northing (SFT)	383,914.8198	
Easting (SFT)	1,251,334.6312	
Elevation (SFT)*	621.682	

Convergence Angle	0	7	8.7086527
Scale Factor			0.999941774
Elevation Adjust. Factor			0.9999702639
Combined Adjust. Factor			0.9999120396

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	23	16.5592932
Longitude	92	12	16.7352444
Ellipsoid Height:			161.111
Grid Northing (Meters)			117,017.9471
Grid Easting (Meters)			381,407.6920

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	23	16.5438384
Longitude	92	12	16.7404968
Ellipsoid Height (M):	161.809		0.0060
Geoid Height (M):	-27.682		0.0060

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 1.21 KM. (0.75 MI.) TO THE STATION ON THE RIGHT. 8.80 METERS SOUTHEAST OF THE CENTER OF HWY-25, 37.9 METERS WEST OF THE CENTER OF A PAVED STREET AND 0.50 METERS NORTHWEST OF A WITNESS POST SET IN FRONT OF A TELEPHONE POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120003A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE	137	0.70	2.3
MK # 2	GAS METER	225	25.68	84.3
MK # 3	NONE			

AZ Mark Station	120003
Geodetic Azimuth	235 16 24.63262
Grid Azimuth	235 23 33.36393

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC) MAY 1940
Ref Mon # 2	ARBT, (SC)92230001
Ref Mon # 3	P777, (SC)120009

Comments

PREVIOUS ELEV. (621.6823 SURV. FT.) BASED ON Digital Levels ran from NGS mark T 68 by crew S5104 in Sept 2009.
UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM T 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120004	11/29/1995	AHTD	CLEBURNE	25	001657, 012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	119,568.6037	0.0030
Easting (M)	385,403.2884	0.0030
Elevation (M)*	179.409	
Northing (SFT)	392,284.6606	
Easting (SFT)	1,264,443.9554	
Elevation (SFT)*	588.611	

Convergence Angle	0	5	36.6704241
Scale Factor			0.999940483
Elevation Adjust. Factor			0.9999718457
Combined Adjust. Factor			0.9999123303

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	24	39.5818128
Longitude	92	9	38.5668864
Ellipsoid Height:			151.067
Grid Northing (Meters)			119,569.0471
Grid Easting (Meters)			385,403.4130

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	24	39.5674200	
Longitude	92	9	38.5717968	
Ellipsoid Height (M):			151.779	0.0060
Geoid Height (M):			-27.622	0.0060

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 6.12 KM. (3.80 MI.) TO THE STATION ON THE RIGHT. 18.39 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 1.77 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120004 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16" (0.40 M) PINE TREE	53	35.09	115.1
MK # 2	18" (0.45 M) PINE TREE	240	39.90	130.9
MK # 3	NONE			

AZ Mark Station	120004A
Geodetic Azimuth	52 56 20.01377
Grid Azimuth	53 01 56.66044

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC) MAY 1940
Ref Mon # 2	ARBT, (SC)92230001
Ref Mon # 3	P777, (SC)120009

Comments

PREVIOUS ELEVATION (588.6307 SURV. FT.)BY 3-WIRE USING NGS Point F 207 *NOTE: F 207 LATER DESTROYED & NOT FOUND IN 2015. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120004A	11/29/1995	AHTD	CLEBURNE	25	001657, 012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	119,893.6641
Easting (M)	385,834.7010
Elevation (M)*	183.007
Northing (SFT)	393,351.1296
Easting (SFT)	1,265,859.3482
Elevation (SFT)*	600.416

Convergence Angle	0	5	26.7318665
Scale Factor			0.999940330
Elevation Adjust. Factor			0.9999712811
Combined Adjust. Factor			0.9999116128

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	24	50.1379740	
Longitude	92	9	21.4922772	
Ellipsoid Height (M):	154.672			
Geoid Height (M):	-28.346			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO NORTHERLY ON HWY-25 FOR 6.60 KM. (4.10 MI.) TO THE STATION ON THE LEFT. 10.94 METERS NORTHWEST OF THE CENTER OF HWY-25 AND 1.03 METERS SOUTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120004A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL FENCE BRACE POST	324	1.36	4.5
MK # 2	TELEPHONE POLE	74	6.35	20.8
MK # 3	NONE			

AZ Mark Station	120004
Geodetic Azimuth	232 56 29.90779
Grid Azimuth	233 01 56.66044

Area Reference Monuments (used for Processing)

Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

PREVIOUS ELEVATION (600.4516 SURV. FT.) BY 3-WIRE USING NGS Point F 207 *NOTE: F 207 LATER DESTROYED & NOT FOUND IN 2015. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68. *NOTE: S5112 FOUND

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120005	11/29/1995	AHTD	CLEBURNE	25	001657, 012227, 050413

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	121,865.8767	0.0020
Easting (M)	390,026.9512	0.0020
Elevation (M)*	232.804	
Northing (SFT)	399,821.6305	
Easting (SFT)	1,279,613.4224	
Elevation (SFT)*	763.792	

Convergence Angle	0	3	50.0857195
Scale Factor			0.999939458
Elevation Adjust. Factor			0.9999634668
Combined Adjust. Factor			0.9999029270

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	25	54.3327204
Longitude	92	6	35.4006432
Ellipsoid Height:			204.483
Grid Northing (Meters)			121,866.3050
Grid Easting (Meters)			390,027.0570

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	25	54.3188172	
Longitude	92	6	35.4048192	
Ellipsoid Height (M):			205.241	0.0050
Geoid Height (M):			-27.564	0.0050

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 AND 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS, GO SOUTHWESTERLY ON HWY-25 & 16 FOR 6.92 KM. (4.30 MI.) TO THE STATION ON THE LEFT. 9.50 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 0.59 METERS NORTH OF A WITNESS POST SET AT THE END OF A WOODEN FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120005 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER POST	163	0.65	2.1
MK # 2	GUY POLE	262	34.86	114.4
MK # 3	TELEPHONE JUNCTION BOX	347	18.90	62.0

AZ Mark Station	120005A
Geodetic Azimuth	77 59 52.12755
Grid Azimuth	78 03 42.19350

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC) MAY 1940
Ref Mon # 2	ARBT, (SC)92230001
Ref Mon # 3	P777, (SC)120009

Comments

NO RECORD OF HOW PREVIOUS ELEV. (763.8010 SURV. FT.) WAS DERIVED.
UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120005A	11/29/1995	AHTD	CLEBURNE	25	001657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	121,951.7640	
Easting (M)	390,431.2510	
Elevation (M)*	236.555	
Northing (SFT)	400,103.4124	
Easting (SFT)	1,280,939.8627	
Elevation (SFT)*	776.098	

Convergence Angle	0	3	40.7603479
Scale Factor			0.999939422
Elevation Adjust. Factor			0.9999628782
Combined Adjust. Factor			0.9999023024

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	25	57.1201500
Longitude	92	6	19.3790664
Ellipsoid Height (M):	208.232		
Geoid Height (M):	-28.323		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-26/16 & 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 & 16 FOR 6.52 KM. (4.05 MI.) TO THE STATION ON THE LEFT. 11.30 METERS SOUTHEAST OF THE CENTER OF HWY-25 & 16 AND 1.25 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120005A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE RIGHT OF WAY MONUMENT	238	29.85	97.9
MK # 2	TELEPHONE JUNCTION BOX	56	19.85	65.1
MK # 3	GUY POLE	305	36.81	120.8

AZ Mark Station	120005
Geodetic Azimuth	258 00 01.41585
Grid Azimuth	258 03 42.1935

Area Reference Monuments (used for Processing)

Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120006	11/29/1995	AHTD	CLEBURNE	25	001657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	123,699.2280	
Easting (M)	392,239.7220	
Elevation (M)*	249.897	
Northing (SFT)	405,836.5505	
Easting (SFT)	1,286,873.1546	
Elevation (SFT)*	819.870	

Convergence Angle	0	2	59.0721873
Scale Factor			0.999938735
Elevation Adjust. Factor			0.9999607846
Combined Adjust. Factor			0.9998995220

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	26	53.8811880
Longitude	92	5	7.7375076
Ellipsoid Height (M):	221.582		
Geoid Height (M):	-28.315		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 & 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 & 16 FOR 3.70 KM. (2.30 MI.) TO A LARGE CLEARING ON THE RIGHT AND THE STATION ON THE RIGHT. 9.35 METERS NORTH-NORTHWEST OF THE CENTER OF HWY-25 & 16 AND 0.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120006 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	120006A
Geodetic Azimuth	90 32 13.0035
Grid Azimuth	90 35 12.05691

Area Reference Monuments (used for Processing)

Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120006A	11/29/1995	AHTD	CLEBURNE	25	001657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	123,694.2040	
Easting (M)	392,730.3100	
Elevation (M)*	256.087	
Northing (SFT)	405,820.0676	
Easting (SFT)	1,288,482.6921	
Elevation (SFT)*	840.179	

Convergence Angle	0	2	47.7515423
Scale Factor			0.999938737
Elevation Adjust. Factor			0.9999598132
Combined Adjust. Factor			0.9998985527

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	26	53.7315468
Longitude	92	4	48.2828556
Ellipsoid Height (M):	227.774		
Geoid Height (M):	-28.313		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 & 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO SOUTHWESTERLY ON HWY-25 & 16 FOR 3.22 KM. (2.0 MI.) TO A LARGE CLEARING ON THE RIGHT AND THE STATION ON THE RIGHT. 9.90 METERS NORTH OF THE CENTER OF HWY-25 & 16, 51.70 METERS EAST OF A FIELD ENTRANCE, 48.8 METERS WEST OF A FIELD ENTRANCE AND 0.80 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	120006
Geodetic Azimuth	270 32 24.28659
Grid Azimuth	270 35 12.05691

Area Reference Monuments (used for Processing)

Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120007	12/5/1995	AHTD	CLEBURNE	5	001748,050067

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	115,147.5271
Easting (M)	393,188.3520
Elevation (M)*	230.702
Northing (SFT)	377,779.8452
Easting (SFT)	1,289,985.4515
Elevation (SFT)*	756.895

Convergence Angle	0	2	37.0318641
Scale Factor			0.999942809
Elevation Adjust. Factor			0.9999637966
Combined Adjust. Factor			0.9999066077

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	22	16.4076708
Longitude	92	4	29.8609716
Ellipsoid Height (M):	202.388		
Geoid Height (M):	-28.314		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 & 36 IN ROSE BUD GO NORTH ON HWY-5 FOR 4.67 KM. (2.90 MI.) TO THE STATION ON THE RIGHT. 11.60 METERS EAST OF THE CENTER OF HWY-5 AND 1.65 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	121	1.55	5.1
MK # 2	SOUTHWEST CORNER OF STORM CELLAR	60	21.25	69.7
MK # 3	16" (0.40 M) TREE	8	15.40	50.5

AZ Mark Station	120007A
Geodetic Azimuth	8 17 37.15361
Grid Azimuth	8 20 14.17810

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	730001
Ref Mon # 3	430001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120007A	12/5/1995	AHTD	CLEBURNE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	116,002.4980
Easting (M)	393,313.6470
Elevation (M)*	240.024
Northing (SFT)	380,584.8622
Easting (SFT)	1,290,396.5235
Elevation (SFT)*	787.479

Convergence Angle	0	2	34.1581166
Scale Factor			0.999942321
Elevation Adjust. Factor			0.9999623338
Combined Adjust. Factor			0.9999046570

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	22	44.1542424
Longitude	92	4	24.9224052
Ellipsoid Height (M):	211.710		
Geoid Height (M):	-28.314		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 & 36 IN ROSE BUD GO NORTH ON HWY-5 FOR 5.55 KM. (3.45 MI.) TO THE STATION ON THE RIGHT. 12.50 METERS EAST OF THE CENTER OF HWY-5 AND 0.63 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120007A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	120007
Geodetic Azimuth	188 17 40.01267
Grid Azimuth	188 20 14.17809

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120008	12/5/1995	AHTD	CLEBURNE	5	001748,050067

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	118,718.7631	
Easting (M)	394,680.8110	
Elevation (M)*	267.680	
Northing (SFT)	389,496.4753	
Easting (SFT)	1,294,881.9608	
Elevation (SFT)*	878.213	

Convergence Angle	0	2	2.6745369
Scale Factor			0.999940889
Elevation Adjust. Factor			0.9999579940
Combined Adjust. Factor			0.9998988855

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	24	12.3257088
Longitude	92	3	30.8175300
Ellipsoid Height (M):	239.371		
Geoid Height (M):	-28.309		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-25 AND HWY-16 ABOUT 4.50 KM. SOUTH OF HEBER SPRINGS GO SOUTH ON HWY-5 FOR 7.24 KM. (4.50 MI.) TO THE STATION ON THE LEFT. 11.87 METERS SOUTHEAST OF THE CENTER OF HWY-5, 24.87 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 2.40 METERS NORTHWEST OF A WITNESS POST SET NEXT TO A POWER POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120008 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	50	29.98	98.4
MK # 2	POWER POLE	136	2.64	8.7
MK # 3	GUY POLE	319	24.59	80.7

AZ Mark Station	120008A
Geodetic Azimuth	229 03 58.7358
Grid Azimuth	229 06 01.4346

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120008A	12/5/1995	AHTD	CLEBURNE	5	001748,050067

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	118,309.0480	
Easting (M)	394,207.8160	
Elevation (M)*	268.201	
Northing (SFT)	388,152.2683	
Easting (SFT)	1,293,330.1430	
Elevation (SFT)*	879.923	

Convergence Angle	0	2	13.5769268
Scale Factor	0.999941093		
Elevation Adjust. Factor	0.9999579123		
Combined Adjust. Factor	0.9998990078		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	23	59.0211024	
Longitude	92	3	49.5534060	
Ellipsoid Height (M):	239.890			
Geoid Height (M):	-28.311			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-25 AND HWY-16 ABOUT 4.50 KM. SOUTH OF HEBER SPRINGS, GO SOUTH ON HWY-5 FOR 7.89 KM. (4.90 MI.) TO THE STATION ON THE RIGHT. 12.10 METERS NORTHWEST OF THE CENTER OF HWY-5 AND 1.05 METERS SOUTHEAST OF A WITNESS POST SET NEXT TO A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120008A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	231	10.00	32.8
MK # 2	FENCE CORNER POST	323	1.20	3.9
MK # 3	GUY POLE	288	31.50	103.3

AZ Mark Station	120008
Geodetic Azimuth	49 03 47.8821
Grid Azimuth	49 06 01.4346

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120009A	12/7/1995	AHTD	CLEBURNE	25	01657, 050119 ,050118, 01222

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,950.1585	0.0030
Easting (M)	395,745.5379	0.0030
Elevation (M)*	276.841	
Northing (SFT)	409,940.6450	
Easting (SFT)	1,298,375.1523	
Elevation (SFT)*	908.269	

Convergence Angle	0	1	38.1875384
Scale Factor			0.999938289
Elevation Adjust. Factor			0.9999565565
Combined Adjust. Factor			0.9998948482

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	27	34.5631176
Longitude	92	2	48.7330296
Ellipsoid Height:			248.539
Grid Northing (Meters)			124,950.5770
Grid Easting (Meters)			395,745.6220

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	27	34.5495348
Longitude	92	2	48.7363560
Ellipsoid Height (M):	249.301		0.0030
Geoid Height (M):	-27.513		0.0030

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25/16 & 5 ABOUT 5 KM. SOUTH OF HEBER SPRINGS GO EAST ON HWY-25/16 & 5 FOR 0.40 KM. (0.25 MI.) TO THE STATION ON THE LEFT IN FRONT OF "WOOD BROTHERS TRUCKING". 13.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 1.20 METERS WEST OF A WITNESS POST SET BESIDE A COMBINATION POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "120009A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	95	1.45	4.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	120009
Geodetic Azimuth	271 17 08.25216
Grid Azimuth	271 18 46.46167

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC) MAY 1940
Ref Mon # 2	ARBT, (SC)92230001
Ref Mon # 3	P777, (SC)120009

Comments

PREVIOUS Elevation (908.2692 SURV. FT.) based on 3-wire from NGS Point Y 68 UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 IN 2015 BY S5112 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM NGS 2ND ORDER BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120010	3/4/2006	AHTD	CLEBURNE	25B	050175

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	130,727.5180
Easting (M)	397,341.6000
Elevation (M)*	173.602
Northing (SFT)	428,895.1986
Easting (SFT)	1,303,611.5660
Elevation (SFT)*	569.561
Convergence Angle	0 1 1.3921563
Scale Factor	0.999936733
Elevation Adjust. Factor	0.9999727569
Combined Adjust. Factor	0.9999094916

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	30	42.0404004
Longitude	92	1	45.5030904
Ellipsoid Height (M):	146.178		
Geoid Height (M):	-27.424		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25B AND STATE HIGHWAY 110, IN HEBER SPRINGS, GO NORTH ON 25B FOR 1.30 MILES TO THE STATION ON THE LEFT, NORTH 32.0 FEET OF AN ASPH. DRIVE, 26.7 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND EAS

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANDT	349	16.37	53.7
MK # 2	MAN HOLE	336	11.13	36.5
MK # 3	8" PIPE FLUSH WITH ASPH.	247	6.22	20.4

AZ Mark Station	120010A
Geodetic Azimuth	181 40 07
Grid Azimuth	181 41 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120010A	3/4/2006	AHTD	CLEBURNE	25B	050175

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	130,238.7871	
Easting (M)	397,327.2160	
Elevation (M)*	173.333	
Northing (SFT)	427,291.7540	
Easting (SFT)	1,303,564.3745	
Elevation (SFT)*	568.676	

Convergence Angle	0	1	1.7209577
Scale Factor			0.999936833
Elevation Adjust. Factor			0.9999727992
Combined Adjust. Factor			0.9999096339

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	30	26.1813744
Longitude	92	1	46.0681392
Ellipsoid Height (M):	145.912		
Geoid Height (M):	-27.425		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25B AND STATE HIGHWAY 110, IN HEBER SPRINGS, GO NORTH ON 25B FOR 1.00 MILES TO THE STATION ON THE LEFT, 29.20 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND EAST 1.5 FEET OF A WITNESS POST.THE S

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PAY PHONE	302	3.75	12.3
MK # 2	LIGHT POLE	183	22.86	75.0
MK # 3	LIGHT POLE	350	26.40	86.6

AZ Mark Station	120010
Geodetic Azimuth	1 40 07
Grid Azimuth	1 41 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120011	3/4/2006	AHTD	CLEBURNE	110	050175

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	128,932.5440	
Easting (M)	399,607.6380	
Elevation (M)*	86.301	
Northing (SFT)	423,006.1881	
Easting (SFT)	1,311,046.0590	
Elevation (SFT)*	283.141	

Convergence Angle	0	0	9.0592498
Scale Factor			0.999937129
Elevation Adjust. Factor			0.9999864567
Combined Adjust. Factor			0.9999235865

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	29	43.8075852
Longitude	92	0	15.5684196
Ellipsoid Height (M):	58.877		
Geoid Height (M):	-27.413		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE 110 STATE HIGHWAY 25, SOUTHEAST OF HEBER SPRINGS, GO WEST ON HIGHWAY 110 0.40 MILES TO THE STATION MARK ON THE LEFT, EAST OF A GRAVEK DRIVE 39.7 FEET, WEST 55.5 FEET OF A GRAVEL DRIVE, SOUTH 29.4 FEET O

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16" ELM	197	11.58	38.0
MK # 2	GAS METER	347	21.21	69.6
MK # 3				

AZ Mark Station	120011A
Geodetic Azimuth	266 21 07
Grid Azimuth	266 21 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120011A	3/4/2006	AHTD	CLEBURNE	110	050175

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	128,898.3500	
Easting (M)	399,070.9590	
Elevation (M)*	88.033	
Northing (SFT)	422,894.0033	
Easting (SFT)	1,309,285.3047	
Elevation (SFT)*	288.822	

Convergence Angle	0	0	21.4505555
Scale Factor			0.999937137
Elevation Adjust. Factor			0.9999861849
Combined Adjust. Factor			0.9999233228

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	29	42.6967296	
Longitude	92	0	36.8630136	
Ellipsoid Height (M):	60.603			
Geoid Height (M):	-27.417			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE 110 STATE HIGHWAY 25, SOUTHEAST OF HEBER SPRINGS, GO WEST ON HIGHWAY 110 0.70 MILES TO THE STATION MARK ON THE RIGHT, NORTH 31.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	80	28.65	94.0
MK # 2	16" PINE	58	27.07	88.8
MK # 3	SOUTHEAST CORNER ASPH. LOT	281	14.97	49.1

AZ Mark Station	120011
Geodetic Azimuth	86 20 54
Grid Azimuth	86 21 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

3-Wire levels ran from NGS BM W7/V7 by S5103 in Jun 2006 in Job 050175.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120012	4/28/2010	AHTD	CLEBURNE	225	050228

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	140,598.9057
Easting (M)	388,307.1784
Elevation (M)*	187.632
Northing (SFT)	461,281.5765
Easting (SFT)	1,273,971.1345
Elevation (SFT)*	615.589
Convergence Angle	0 4 30.3285428
Scale Factor	0.999935976
Elevation Adjust. Factor	0.9999705553
Combined Adjust. Factor	0.9999065332

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 36 2.1201599
Longitude	92 7 44.5625501
Ellipsoid Height (M):	160.155
Geoid Height (M):	-27.477

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 225 AND STATE HIGHWAY 92, EAST OF GREERS FERRY, GO NORTH ON 225 FOR 1.0 MILE TO THE MARK ON THE RIGHT, 75.1 FEET SOUTH OF THE CENTERLINE OF HAZELWOOD DRIVE, AND EAST 18.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120012 2010" ON TOP OF A 3.8 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	30	16.46	54.0
MK # 2	COMBINATION POLE	7	29.41	96.5
MK # 3	12" RED OAK	111	17.13	56.2

AZ Mark Station	120012A
Geodetic Azimuth	171 49 35
Grid Azimuth	171 54 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHR

Comments

ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120012A	4/28/2010	AHTD	CLEBURNE	225	050228

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	140,018.7930
Easting (M)	388,389.7260
Elevation (M)*	193.415
Northing (SFT)	459,378.3234
Easting (SFT)	1,274,241.9594
Elevation (SFT)*	634.562

Convergence Angle	0	4	28.4026612
Scale Factor			0.999935954
Elevation Adjust. Factor			0.9999696478
Combined Adjust. Factor			0.9999056037

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	35	43.2997872
Longitude	92	7	41.2529016
Ellipsoid Height (M):	165.935		
Geoid Height (M):	-27.479		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 225 AND STATE HIGHWAY 92, EAST OF GREERS FERRY, GO NORTH ON 225 FOR 0.65 MILE TO THE MARK ON THE RIGHT, EAST 21.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 8.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120012A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	7	15.42	50.6
MK # 2	FIRE HYDRANDT	113	11.46	37.6
MK # 3	EAST END 30" RCP	178	24.38	80.0

AZ Mark Station	120012
Geodetic Azimuth	351 49 37
Grid Azimuth	351 54 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120013	4/28/2010	AHTD	CLEBURNE	225	050228

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	142,761.9450
Easting (M)	388,286.6840
Elevation (M)*	247.335
Northing (SFT)	468,378.1479
Easting (SFT)	1,273,903.8958
Elevation (SFT)*	811.465

Convergence Angle	0	4	30.8680287
Scale Factor			0.999936130
Elevation Adjust. Factor			0.9999611866
Combined Adjust. Factor			0.9998973191

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	37	12.3068208	
Longitude	92	7	45.4896624	
Ellipsoid Height (M):	219.874			
Geoid Height (M):	-27.461			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 225 AND STATE HIGHWAY 92, EAST OF GREERS FERRY, GO NORTH ON 225 FOR 2.55 MILES TO THE MARK ON THE LEFT, WEST 20.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 20.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120013 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END 24" RCP	195	5.55	18.2
MK # 2	COMBINATION POLE WITH GUY	349	16.00	52.5
MK # 3				

AZ Mark Station	120013A
Geodetic Azimuth	192 48 04
Grid Azimuth	192 52 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120013A	4/28/2010	AHTD	CLEBURNE	225	050228

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	142,325.2010	
Easting (M)	388,186.8450	
Elevation (M)*	209.957	
Northing (SFT)	466,945.2636	
Easting (SFT)	1,273,576.3406	
Elevation (SFT)*	688.834	

Convergence Angle	0	4	33.1634064	
Scale Factor	0.999936090			
Elevation Adjust. Factor	0.9999670520			
Combined Adjust. Factor	0.9999031441			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	36	58.1308488	
Longitude	92	7	49.4342940	
Ellipsoid Height (M):	182.490			
Geoid Height (M):	-27.468			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 225 AND STATE HIGHWAY 92, EAST OF GREERS FERRY, GO NORTH ON 225 FOR 2.25 MILES TO THE MARK ON THE LEFT, WEST 19.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 29.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120013A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWE POLE	248	75.59	248.0
MK # 2				
MK # 3				

AZ Mark Station	120013
Geodetic Azimuth	12 48 02
Grid Azimuth	12 52 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

ELEVATIONS WERE DERIVED BY GPS USING D 52 AND N 48.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120014	11/8/2011	AHTD	CLEBURNE	25	050261

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	138,885.2698	
Easting (M)	406,390.9314	
Elevation (M)*	299.665	
Northing (SFT)	455,659.4227	
Easting (SFT)	1,333,300.9141	
Elevation (SFT)*	983.152	

Convergence Angle	0	2	27.7248307
Scale Factor	0.999935935		
Elevation Adjust. Factor	0.9999529749		
Combined Adjust. Factor	0.9998889130		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	35	6.6892776
Longitude	91	55	46.1332668
Ellipsoid Height (M):	272.384		
Geoid Height (M):	-27.281		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY25 AND STATE HIGHWAY 25 SPUR , NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 4.15 MILES TO THE MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 29.6 FEET AND NORTH 76.0 FEET OF THE CENTERLINE OF GRAVEL DRIVE AND EAST 13.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120014 2011" ON TOP OF A 2 FOOT BEBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER VALVE	330	8.41	27.6
MK # 2	NORTHEAST CORNER OF METAL BUILDING	267	19.32	63.4
MK # 3				

AZ Mark Station	120014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120014A	11/8/2011	AHTD	CLEBURNE	25	050261

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	138,368.3590	
Easting (M)	406,258.4015	
Elevation (M)*	292.594	
Northing (SFT)	453,963.5245	
Easting (SFT)	1,332,866.1056	
Elevation (SFT)*	959.953	

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	34	49.9192176	
Longitude	91	55	51.4121448	
Ellipsoid Height (M):	265.309			
Geoid Height (M):	-27.285			

Convergence Angle	0	2	24.6530562
Scale Factor	0.999935937		
Elevation Adjust. Factor	0.9999540845		
Combined Adjust. Factor	0.9998900245		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY25 AND STATE HIGHWAY 25 SPUR , NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 3.85 MILES TO THE MARK ON THE RIGHT, EAST OF THE CENTERLINE OF THE HIGHWAY 26.7 FEET AND NORTH 85.5 FEET OF THE CENTER OF CONCRETE DRIVE AND WEST 12.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120014A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF METAL SIGN	29	16.61	54.5
MK # 2				
MK # 3				

AZ Mark Station	120014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120015	11/8/2011	AHTD	CLEBURNE	25	050261

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	141,585.5525	
Easting (M)	405,331.5104	
Elevation (M)*	287.801	
Northing (SFT)	464,518.6002	
Easting (SFT)	1,329,825.1304	
Elevation (SFT)*	944.227	

Convergence Angle	0	2	3.2738823
Scale Factor			0.999936032
Elevation Adjust. Factor			0.9999548367
Combined Adjust. Factor			0.9998908716

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	36	34.3324260
Longitude	91	56	28.1524884
Ellipsoid Height (M):	260.518		
Geoid Height (M):	-27.283		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY25 AND STATE HIGHWAY 25 SPUR , NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 6.15 MILES TO THE MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 21.3 FEET AND EAST 28.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120015 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF HEADWALL	134	11.33	37.2
MK # 2				
MK # 3				

AZ Mark Station	120015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120015A	11/8/2011	AHTD	CLEBURNE	25	050261

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	142,033.1266	
Easting (M)	405,189.8312	
Elevation (M)*	294.081	
Northing (SFT)	465,987.0162	
Easting (SFT)	1,329,360.3045	
Elevation (SFT)*	964.832	

Convergence Angle	0	2	0.0040305
Scale Factor			0.999936066
Elevation Adjust. Factor			0.9999538512
Combined Adjust. Factor			0.9998899201

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	36	48.8582856
Longitude	91	56	33.7717644
Ellipsoid Height (M):	266.798		
Geoid Height (M):	-27.284		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY25 AND STATE HIGHWAY 25 SPUR , NORTHEAST OF HEBER SPRINGS, GO NORTH ON HIGHWAY 25 6.45 MILES TO THE MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 38.5 FEET AND EAST 3.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120015A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	120015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120016	11/8/2011	AHTD	CLEBURNE	CR 90	050261

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	146,608.9913	
Easting (M)	407,055.3010	
Elevation (M)*	324.465	
Northing (SFT)	480,999.6656	
Easting (SFT)	1,335,480.6000	
Elevation (SFT)*	1,064.516	

Convergence Angle	0	2	43.2228444
Scale Factor	0.999936691		
Elevation Adjust. Factor	0.9999490834		
Combined Adjust. Factor	0.9998857777		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	39	17.2964592
Longitude	91	55	19.4997612
Ellipsoid Height (M):	297.168		
Geoid Height (M):	-27.297		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY25 AND STATE HIGHWAY 5 NORTH , NORTHEAST OF DRASCO, FROM THE JUNCTION, GO NORTH ON COUNTY ROAD 90 (WOLF BAYO) 0.15 MILES TO THE MARK ON THE LEFT, NORTH OF THE CENTERLINE OF THE COUNTY ROAD 90, 19.0 FEET AND SOUTH 7.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120016 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	120016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120016A	11/8/2011	AHTD	CLEBURNE	CR 90	050261

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	146,601.9705	
Easting (M)	407,735.9351	
Elevation (M)*	321.362	
Northing (SFT)	480,976.6315	
Easting (SFT)	1,337,713.6471	
Elevation (SFT)*	1,054.334	

Convergence Angle	0	2	58.9690166
Scale Factor			0.999936689
Elevation Adjust. Factor			0.9999495704
Combined Adjust. Factor			0.9998862626

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	39	17.0503272
Longitude	91	54	52.4397924
Ellipsoid Height (M):	294.066		
Geoid Height (M):	-27.295		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY25 AND STATE HIGHWAY 5 NORTH , NORTHEAST OF DRASCO, FROM THE JUNCTION, GO NORTH ON COUNTY ROAD 90 (WOLF BAYO) 0.55 MILES TO THE MARK ON THE LEFT,WEST 64.0 FEET OF A GRAVEL DRIVE, NORTH OF THE CENTERLINE OF THE COUNTY ROAD 90, 25.0 FEET AND SOUTH 28.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120016A 2011" ON TOP OF A 1.5 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 3 GUYS	275	13.83	45.4
MK # 2	POWER POLE WITN GUY	358	28.00	91.9
MK # 3				

AZ Mark Station	120016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120017	11/8/2011	AHTD	CLEBURNE	25	050261

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	148,644.4064	
Easting (M)	408,679.8568	
Elevation (M)*	330.545	
Northing (SFT)	487,677.5233	
Easting (SFT)	1,340,810.4969	
Elevation (SFT)*	1,084.464	

Convergence Angle	0	3	20.8524199
Scale Factor	0.999937134		
Elevation Adjust. Factor	0.9999481293		
Combined Adjust. Factor	0.9998852666		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	40	23.2956336
Longitude	91	54	14.8329252
Ellipsoid Height (M):	303.236		
Geoid Height (M):	-27.309		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 NORTH AND STATE HIGHWAY 25,NORTHEAST OF DRASCO GO NORTH ON HIGHWAY 25 1.85 MILES TO THE MARK ON THE LEFT, NORTH 20.7 FEET OF THE CENTERLINE OF HIGHWAY 25 AND SOUTH 16.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120017 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	120017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120017A	11/8/2011	AHTD	CLEBURNE	25	050261

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	148,556.4564	
Easting (M)	409,181.3824	
Elevation (M)*	327.217	
Northing (SFT)	487,388.9740	
Easting (SFT)	1,342,455.9188	
Elevation (SFT)*	1,073.544	

Convergence Angle	0	3	32.4556479
Scale Factor	0.999937113		
Elevation Adjust. Factor	0.9999486516		
Combined Adjust. Factor	0.9998857679		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	40	20.4255084
Longitude	91	53	54.8926512
Ellipsoid Height (M):	299.909		
Geoid Height (M):	-27.308		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 NORTH AND STATE HIGHWAY 25,NORTHEAST OF DRASCO GO NORTH ON HIGHWAY 25 2.15 MILES TO THE MARK ON THE RIGHT, SOUTH 22.8 FEET OF THE CENTERLINE OF HIGHWAY 25 AND NORTH 16.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "120017A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE	106	28.80	94.5
MK # 2	FIRE HYDRANT	70	21.37	70.1
MK # 3				

AZ Mark Station	120017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON 3-WIRE LEVEL BY CTA IN FEBRUARY OF 2012 FROM USGS 3RD ORDER BM'S 3 DWB, 5 DWB, & 7 JWO 1972. **NOTE: 3-WIRE ELEVATION TO THIS MONUMENT WAS HELD FIXED IN THE FINAL GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120018	2/7/2012	AHTD	Cleburne	16	050262,050315

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	122,389.5696	
Easting (M)	405,786.8665	
Elevation (M)*	268.700	
Northing (SFT)	401,539.7796	
Easting (SFT)	1,331,319.0778	
Elevation (SFT)*	881.561	

Convergence Angle	0	2	13.5152108
Scale Factor	0.999939242		
Elevation Adjust. Factor	0.9999578339		
Combined Adjust. Factor	0.9998970785		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	26	11.4320796
Longitude	91	56	10.5526536
Ellipsoid Height (M):	241.226		
Geoid Height (M):	-27.446		

Location Description

Starting at the junction of highway 110 and 16 in Pangburn. Go west for 6.8 miles to the station on the right. the station is a standard alum. cap and 4 foot rebar, and is 3 foot east of a witness post. LAT.35.2611 LON.91.5611

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	north of center line of highway 16	180	7.01	23.0
MK # 2	west of gravel driveway	95	11.00	36.1
MK # 3	south east of power pole with guide wire	305	14.33	47.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120018A	2/7/2012	AHTD	Cleburne	16	050262,050315

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	122,125.3743	
Easting (M)	405,579.4067	
Elevation (M)*	267.405	
Northing (SFT)	400,672.9988	
Easting (SFT)	1,330,638.4368	
Elevation (SFT)*	877.312	

Convergence Angle	0	2	8.7248719
Scale Factor			0.999939350
Elevation Adjust. Factor			0.9999580372
Combined Adjust. Factor			0.9998973897

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	26	2.8633740
Longitude	91	56	18.7849032
Ellipsoid Height (M):	239.929		
Geoid Height (M):	-27.447		

Location Description

Starting at the junction of highways 110 and 16 go west for 7 miles to the station on the right. The station is a standard alum. cap and 4 foot rebar.LAT.35.2603 LON.91.5619

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	west of the center line of good springs road	85	5.80	19.0
MK # 2	south west of power pole	70	12.19	40.0
MK # 3	east of witness post		0.30	1.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120019	2/7/2012	AHTD	Cleburne	16	050262.050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	121,858.2132	
Easting (M)	410,485.3994	
Elevation (M)*	167.188	
Northing (SFT)	399,796.4878	
Easting (SFT)	1,346,734.1812	
Elevation (SFT)*	548.515	

Convergence Angle	0	4	1.9058156
Scale Factor			0.999939462
Elevation Adjust. Factor			0.9999737635
Combined Adjust. Factor			0.9999132271

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	35	25	54.0511176	
Longitude	91	53	4.2822168	
Ellipsoid Height (M):	139.827			
Geoid Height (M):	-27.416			

Location Description

Starting at the junction of highway 110 and 16 in pangurn. Go west for 3.5 miles to the station on the left. The station is a standard alum. cap and 4 foot rebar. LAT.35.2554 LON.91.5304

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	south of center line of highway 16	0	8.42	27.6
MK # 2	East of 18" cmp	280	9.72	31.9
MK # 3	North west of the north west corner of brick churc h	135	24.08	79.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120019A	2/7/2012	AHTD	Cleburne	16	050262

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	121,864.2099	
Easting (M)	410,903.1506	
Elevation (M)*	175.649	
Northing (SFT)	399,816.1620	
Easting (SFT)	1,348,104.7533	
Elevation (SFT)*	576.276	

Convergence Angle	0	4	11.5437996
Scale Factor	0.999939459		
Elevation Adjust. Factor	0.9999724357		
Combined Adjust. Factor	0.9999118963		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	35	25	54.2294940	
Longitude	91	52	47.7192360	
Ellipsoid Height (M):	148.284			
Geoid Height (M):	-27.414			

Location Description

Starting at the junction of highway 110 and 16 in Pangburn. Go west on highway 16 for 3.2 miles to the station on the right. The station is a standard alum. cap and 4 foot rebar set 2 foot south of a witness post with sign. LAT.35.2554 LON.91.5248

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	west of haddix lane	95	10.06	33.0
MK # 2	south west of power pole with guide wire	40	11.58	38.0
MK # 3	north of the center line highway 16	180	8.23	27.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-WIRE LEVELS BY CTA IN MARCH OF 2012 FROM NGS 2ND ORDER BM N 207 AND ELEV. ON N 207 WAS VERIFIED WITH STATIC GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120020	9/8/2014	AHTD	CLEBURNE	16	050315

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	123,462.3660	0.0030
Easting (M)	402,367.1977	0.0032
Elevation (M)*	264.583	
Northing (SFT)	405,059.4458	
Easting (SFT)	1,320,099.7145	
Elevation (SFT)*	868.051	

Convergence Angle	0	0	54.6228020	
Scale Factor	0.999938823			
Elevation Adjust. Factor	0.9999584801			
Combined Adjust. Factor	0.9998973056			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	26	46.2942996
Longitude	91	58	26.1301188
Ellipsoid Height (M):	237.141		0.0136
Geoid Height (M):	-27.467		

Location Description

TO REACH FROM THE JUNCTION OF HIGHWAY 25 AND HIGHWAY 16 IN HEBER SPRINGS. GO EAST ON HIGHWAY 16 FOR 3.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 169 FT. EAST OF THE CENTER OF SEXTON CREEK RD., 3.5 FT. NORTH OF A WITNESS POST, AND 24.6 FT. SOUTH OF THE CENTERLINE OF HIGHWAY 16. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "120020 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	267	40.80	133.9
MK # 2	TELEPHONE BOX	86	18.70	61.4
MK # 3	WOODEN FENCE POST	177	1.30	4.3

AZ Mark Station	120021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 Wire Levels were ran by crew S5114 inSep. 15 from 2nd order NGS mark N 207.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120021	9/8/2014	AHTD	CLEBURNE	16	050315

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	123,468.1845	0.0028
Easting (M)	402,756.0249	0.0031
Elevation (M)*	266.445	
Northing (SFT)	405,078.5353	
Easting (SFT)	1,321,375.3917	
Elevation (SFT)*	874.160	

Convergence Angle	0	1	3.5949841
Scale Factor			0.999938821
Elevation Adjust. Factor			0.9999581879
Combined Adjust. Factor			0.9998970115

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	26	46.4794908
Longitude	91	58	10.7113260
Ellipsoid Height (M):	239.018		0.0135
Geoid Height (M):	-27.465		

Location Description

TO REACH FROM THE JUNCTION OF HIGHWAY 25 AND HIGHWAY 16 IN HEBER SPRINGS. GO EAST ON HIGHWAY 16 FOR 4.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 5 FT. SOUTH OF A WITNESS POST, AND 22.6 FT. NORTH OF THE CENTERLINE OF HIGHWAY 16. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "120021 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	179	13.80	45.3
MK # 2	METAL FENCE CORNER POST	281	15.90	52.2
MK # 3	POWER POLE	3	2.00	6.6

AZ Mark Station	120020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 Wire Levels were ran by crew S5114 in Sep. 14 from 2nd order NGS mark N207. ELEV WAS UPDATED 01/25/2015 DURING JOB 050315 FROM 874.22 TO 874.16. NEW ELEV IS BASED ON NGS BM N 207.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120022	5/13/2015	AHTD	CLEBURNE	25	012227, 050413

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	121,951.3910	0.0030
Easting (M)	390,441.6447	0.0030
Elevation (M)*	236.503	

Northing (SFT)	400,102.1886	
Easting (SFT)	1,280,973.9627	
Elevation (SFT)*	775.927	

Convergence Angle	0	3	40.5205457
Scale Factor	0.999939423		
Elevation Adjust. Factor	0.9999628863		
Combined Adjust. Factor	0.9999023116		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	25	57.1084068
Longitude	92	6	18.9669636
Ellipsoid Height (M):	208.929		0.0060
Geoid Height (M):	-27.559		0.0060

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 16W, NORTHEAST OF QUITMAN, GO NORTH ON HIGHWAY 25 0.4 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 18 FEET OF THE EDGE OF THE PAVEMENT AND NORTHWEST 9 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 120022" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	120005
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM D 49 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120023	5/13/2015	AHTD	CLEBURNE	25	012227, 050413

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	123,693.7914	0.0020
Easting (M)	392,225.0668	0.0020
Elevation (M)*	249.579	
Northing (SFT)	405,818.7140	
Easting (SFT)	1,286,825.0733	
Elevation (SFT)*	818.828	

Convergence Angle	0	2	59.4102542	
Scale Factor			0.999938737	
Elevation Adjust. Factor			0.9999608344	
Combined Adjust. Factor			0.9998995738	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	26	53.7043596	
Longitude	92	5	8.3184792	
Ellipsoid Height (M):			222.030	0.0050
Geoid Height (M):			-27.542	0.0050

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107N, NORTHEAST OF QUITMAN, GO NORTH ON HIGHWAY 25 0.65 MILES TO THE MARK ON THE LEFT, NORTH 13 FEET OF THE EDGE OF THE PAVEMENT. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 120023" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	120023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120023A	5/13/2015	AHTD	CLEBURNE	25	012227, 050413

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	123,695.0108	0.0030
Easting (M)	392,732.2432	0.0030
Elevation (M)*	255.643	

Northing (SFT)	405,822.7146	
Easting (SFT)	1,288,489.0346	
Elevation (SFT)*	838.723	

Convergence Angle	0	2	47.7069474
Scale Factor			0.999938737
Elevation Adjust. Factor			0.9999598828
Combined Adjust. Factor			0.9998986223

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	26	53.7577764
Longitude	92	4	48.2062188
Ellipsoid Height (M):	228.096		0.0050
Geoid Height (M):	-27.536		0.0050

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107N, NORTHEAST OF QUITMAN, GO NORTH ON HIGHWAY 25 1 MILE TO THE MARK ON THE LEFT, NORTH 17.3 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 120023A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	120023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM Y 68 BY S5112 IN 2015 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120024	1/22/2019	ARDOT	CLEBURNE	16	Hwy. 16 Slide

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	130,700.9433	0.0030
Easting (M)	379,842.7182	0.0020
Elevation (M)*		
Northing (SFT)	428,808.0115	
Easting (SFT)	1,246,200.6513	
Elevation (SFT)*		

Convergence Angle	0	7	45.5030335
Scale Factor	0.999936743		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	30	40.4528328	
Longitude	92	13	19.9720416	
Ellipsoid Height (M):	229.417			0.0090
Geoid Height (M):	-27.660			0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-16 AND SR-225 S OF HIGDEN, GO N ON SR-16 1.5 MILES TO STATION ON LEFT. 32' W OF C/L SR-16. THE MARK IS A STANDARD 2½" CAP STAMPED "120024 2019" ON TOP OF A 1' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PPOLE + GY	195	10.97	36.0
MK # 2	TB	171	25.00	82.0
MK # 3	S END OF CU	78	3.52	11.5

AZ Mark Station	120024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

STATIC GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & ARRV AND ON NGS 2ND ORDER BM TT 21 RDM IN FINAL NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
120024A	1/22/2019	ARDOT	CLEBURNE	16	Hwy. 16 Slide

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	130,268.0287	0.0030
Easting (M)	380,013.3588	0.0020
Elevation (M)*		
Northing (SFT)	427,387.6908	
Easting (SFT)	1,246,760.4947	
Elevation (SFT)*		

Convergence Angle	0	7	41.5399792
Scale Factor	0.999936832		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	30	26.4176136
Longitude	92	13	13.1614896
Ellipsoid Height (M):	223.175	0.0090	
Geoid Height (M):	-27.653	0.0090	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-16 AND SR-225 S OF HIGDEN, GO N ON SR-16 1.2 MILES TO STATION ON LEFT. 24.5' W OF C/L SR-16. 18.6' N OF CTR OF CONCRETE DW. THE MARK IS A STANDARD 2½" CAP STAMPED "120024A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PPOLE	191	5.50	18.0
MK # 2	WATER VALVE	286	20.12	66.0
MK # 3	SE COR OF MTL BU	282	15.54	51.0

AZ Mark Station	120024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

STATIC GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & ARRV AND ON NGS 2ND ORDER BM TT 21 RDM IN FINAL NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130001	1/12/1994	AHTD	CLEVELAND	15	R70095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	522,301.6582	
Easting (M)	400,645.6730	
Elevation (M)*		
Northing (SFT)	1,713,584.6903	
Easting (SFT)	1,314,451.6788	
Elevation (SFT)*		

Convergence Angle	0	0	14.0451006
Scale Factor			0.999929109
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	46	9.6805164
Longitude	91	59	34.9056024
Ellipsoid Height (M):	45.534		
Geoid Height (M):	-26.539		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSEY NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 6.04 KM (3.75 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS EAST OF THE CENTERLINE OF HWY. 15, 32.748 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF A ONE STORY WHITE FRAME HOUSE, 22.00 METERS SOUTH OF THE CENTER OF A DRIVEWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130001 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	22	4.15	13.6
MK # 2	NBC IN COMBINATION POLE	235	26.23	86.1
MK # 3	GAS METER	285	26.92	88.3

AZ Mark Station	13001A
Geodetic Azimuth	359 54 14.9196
Grid Azimuth	359 54 00.8746

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130001A	1/12/1994	AHTD	CLEVELAND	15	R70095

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	522,699.6671
Easting (M)	400,644.9800
Elevation (M)*	
Northing (SFT)	1,714,890.4911
Easting (SFT)	1,314,449.4052
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	46	22.5993468
Longitude	91	59	34.9314828
Ellipsoid Height (M):	44.031		
Geoid Height (M):	-26.539		

Convergence Angle	0	0	14.0306156
Scale Factor	0.999928823		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 5.65 KM (3.50 MILES) TO THE STATION ON THE LEFT JUST SOUTH OF A CEMETERY. THE STATION IS 10.50 METERS EAST OF THE CENTERLINE OF HWY. 15, 28.00 METERS SOUTH SOUTHWEST OF AN ARKLA GAS REGULATOR STATION AND 1.60 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "13001A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130001
Geodetic Azimuth	179 54 14.90526
Grid Azimuth	179 54 00.87460

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130002	1/12/1994	AHTD	CLEVELAND	15	R70095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	528,201.3271	
Easting (M)	399,739.5750	
Elevation (M)*		
Northing (SFT)	1,732,940.5207	
Easting (SFT)	1,311,478.9223	
Elevation (SFT)*		

Convergence Angle	0	0	5.6684620
Scale Factor	0.999925269		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	49	21.1759212
Longitude	92	0	10.1278476
Ellipsoid Height (M):	47.778		
Geoid Height (M):	-26.542		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 0.839 KM (0.52 MILES) TO THE STATION ON THE LEFT. THE STATION IS 29.00 METERS NORTH OF THE CENTERLINE OF HWY. 11, 14.10 METERS EAST OF THE CENTERLINE OF HWY. 15 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130002 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	334	29.85	97.9
MK # 2	TOP OF FIRE HYDRANT	237	16.20	53.1
MK # 3	NONE			

AZ Mark Station	13002A
Geodetic Azimuth	335 41 20.07162
Grid Azimuth	335 41 25.75989

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130002A	1/12/1994	AHTD	CLEVELAND	15	R70095

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	528,944.2152	
Easting (M)	399,404.0000	
Elevation (M)*		
Northing (SFT)	1,735,377.8127	
Easting (SFT)	1,310,377.9567	
Elevation (SFT)*		

Convergence Angle	0	0	12.9736706
Scale Factor			0.999924846
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	49	45.2884440
Longitude	92	0	23.1800724
Ellipsoid Height (M):	45.224		
Geoid Height (M):	-26.542		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 0.839 KM (0.52 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS WEST OF THE CENTERLINE OF HWY. 15, 14.20 METERS SOUTH OF A DRIVEWAY AND 0.75 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD2 1/2" CAP STAMPED "13002A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 18" PINE TREE	335	27.65	90.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130002
Geodetic Azimuth	155 41 12.80581
Grid Azimuth	155 41 25.75989

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130003	1/12/1994	AHTD	CLEVELAND	15	R70095

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	531,901.6871
Easting (M)	398,408.6340
Elevation (M)*	
Northing (SFT)	1,745,080.7851
Easting (SFT)	1,307,112.3267
Elevation (SFT)*	
Convergence Angle	0 0 34.6515138
Scale Factor	0.999923297
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	51	21.2795856
Longitude	92	1	1.9119000
Ellipsoid Height (M):	41.297		
Geoid Height (M):	-26.544		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 4.19 KM (2.60 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.25 METERS EAST OF THE CENTERLINE OF HWY. 15, 26.384 METERS NORTH OF A DRIVEWAY, 25.187 METERS NORTHWEST OF THE NORTHWEST CORNER OF A BRICK HOUSE AND 1.0 METERS WEST OF A WITNESS POST SET IN A FENCE LINE . THE STATION MARK IS A STANDARD 2 /1/2" ALUMINUM CAP STAMPED "130003 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	13003A
Geodetic Azimuth	10 07 33.39969
Grid Azimuth	10 08 08.04576

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130003A	1/12/1994	AHTD	CLEVELAND	15	R70095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	532,514.5141	
Easting (M)	398,518.1880	
Elevation (M)*		
Northing (SFT)	1,747,091.3683	
Easting (SFT)	1,307,471.7551	
Elevation (SFT)*		

Convergence Angle	0	0	32.2680966
Scale Factor			0.999923002
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	51	41.1715260	
Longitude	92	0	57.6534456	
Ellipsoid Height (M):			46.969	
Geoid Height (M):			-26.544	

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 35 AND HWY. 11 IN THE TOWN OF PANSY NORTH OF WARREN, GO NORTH ON HWY. 15 FOR 4.80 KM (2.98 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.228 METERS WEST OF THE CENTERLINE OF HWY. 15, 37.790 METERS SOUTH OF THE CENTER OF A DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "13003A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 20" GUM TREE	4	28.18	92.5
MK # 2	NBC IN POWER POLE	259	33.35	109.4
MK # 3	NONE			

AZ Mark Station	130003
Geodetic Azimuth	190 07 35.77226
Grid Azimuth	190 08 08.04576

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130004	1/12/1994	AHTD	CLEVELAND	15	R70095

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	536,647.6070	
Easting (M)	397,807.3880	
Elevation (M)*		
Northing (SFT)	1,760,651.3573	
Easting (SFT)	1,305,139.7388	
Elevation (SFT)*		

Convergence Angle	0	0	47.7673972
Scale Factor	0.999921260		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	53	55.3201692
Longitude	92	1	25.3460640
Ellipsoid Height (M):	48.806		
Geoid Height (M):	-26.546		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 114 IN THE TOWN OF CALMER NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 4.54 KM (2.82 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS WEST OF THE CENTERLINE OF HWY. 15 AND 0.70 METERS EAST OF A WITNESS POST AND FENCE CORNER. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130004 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 8" CHERRY TREE	45	25.35	83.2
MK # 2	TELEPHONE JUNCTION BOX	101	30.04	98.5
MK # 3	NONE			

AZ Mark Station	13004A
Geodetic Azimuth	353 38 20.83360
Grid Azimuth	353 39 08.60315

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130004A	1/12/1994	AHTD	CLEVELAND	15	R70095

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	537,158.9151
Easting (M)	397,750.5090
Elevation (M)*	
Northing (SFT)	1,762,328.8740
Easting (SFT)	1,304,953.1283
Elevation (SFT)*	
Convergence Angle	0 0 49.0091878
Scale Factor	0.999921074
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	54	11.9158776
Longitude	92	1	27.5647728
Ellipsoid Height (M):	51.564		
Geoid Height (M):	-26.546		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 114 IN THE TOWN OF CALMER NORTH OF WARREN, GO SOUTH ON HWY. 15 FOR 4.02 KM (2.50 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.31 METERS WEST OF THE CENTERLINE OF HWY. 15 AND 1.00 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "13004A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 20" SYCAMORE TREE	178	33.24	109.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130004
Geodetic Azimuth	173 38 19.59609
Grid Azimuth	173 39 08.60315

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	CELLPORT
Ref Mon # 3	93400004

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130006	3/23/1995	AHTD	CLEVELAND	15	RX0025

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	545,343.3510	
Easting (M)	396,000.2150	
Elevation (M)*	84.439	
Northing (SFT)	1,789,180.6441	
Easting (SFT)	1,299,210.7054	
Elevation (SFT)*	277.030	

Convergence Angle	0	1	27.2178689
Scale Factor	0.999918967		
Elevation Adjust. Factor	0.9999867489		
Combined Adjust. Factor	0.9999057170		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	58	37.5478716
Longitude	92	2	35.8322676
Ellipsoid Height (M):	57.869		
Geoid Height (M):	-26.555		

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 15 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 31.73 KM (19.72 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "FRIENDSHIP MISSIONARY BAPTIST CHURCH" AND 1.19 KM (0.74 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOLS. THE STATION IS 24.0 METERS SOUTH OF THE NORTHERN MOST DRIVEWAY TO THE CHURCH, 30 METERS NORTH OF THE SOUTHERN MOST DRIVEWAY TO THE CHURCH, 11.5 METERS EAST OF THE CENTER OF HWY. 15, 4.20 METERS WEST OF THE EDGE OF THE PAVED PARKING AREA AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	14" METAL PIPE	0	20.40	66.9
MK # 2	EAST CORNER OF BRICK AND WOOD SIGN	34	9.75	32.0
MK # 3	14" METAL PIPE	195	25.00	82.0

AZ Mark Station	130006A
Geodetic Azimuth	14 12 48.738617
Grid Azimuth	14 14 15.953566

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	130004 AHTD
Ref Mon # 3	93400004 AHTD

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130006A	3/23/1995	AHTD	CLEVELAND	15	RX0025

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	546,085.4171	
Easting (M)	396,188.5070	
Elevation (M)*	83.610	
Northing (SFT)	1,791,615.2393	
Easting (SFT)	1,299,828.4600	
Elevation (SFT)*	274.310	

Convergence Angle	0	1	23.1185622
Scale Factor	0.999918858		
Elevation Adjust. Factor	0.9999868790		
Combined Adjust. Factor	0.9999057381		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	59	1.6362708
Longitude	92	2	28.5080316
Ellipsoid Height (M):	57.054		
Geoid Height (M):	-26.556		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 30.96 KM (19.24 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 1.96 KM (1.22 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOLS. THE STATION IS 10.70 METERS WEST OF THE CENTER OF HWY. 15, 11.60 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 9.20 METERS NORTH OF A STEEL MAIL BOX POST, 4.50 METERS NORTHEAST OF A DUG WELL WITH A SMALL SHED OVER IT AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130006
Geodetic Azimuth	194 12 52.83221
Grid Azimuth	194 14 15.95357

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	130004 AHTD
Ref Mon # 3	93400004 AHTD

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130007	3/23/1995	AHTD	CLEVELAND	15	RX0025

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	547,648.4600	
Easting (M)	396,235.0560	
Elevation (M)*	81.613	
Northing (SFT)	1,796,743.3225	
Easting (SFT)	1,299,981.1796	
Elevation (SFT)*	267.759	

Convergence Angle	0	1	22.1170226
Scale Factor			0.999918672
Elevation Adjust. Factor			0.9999871924
Combined Adjust. Factor			0.9999058655

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	59	52.3698252
Longitude	92	2	26.7185796
Ellipsoid Height (M):	55.054		
Geoid Height (M):	-26.559		

Location Description

FROM THE JCT. OF HWY . 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 30.55 KM (18.98 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 2.37 KM (1.48 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOLS. THE STATION IS 14.0 METERS WEST OF THE CENTER OF HWY. 15 AND 0.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDERGROUND CABLE MARKER	180	8.10	26.6
MK # 2	FENCE CORNER	280	0.65	2.1
MK # 3	NONE			

AZ Mark Station	130007A
Geodetic Azimuth	176 39 39.12767
Grid Azimuth	176 41 01.24433

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	130004 AHTD
Ref Mon # 3	93400004 AHTD

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130007A	3/23/1995	AHTD	CLEVELAND	15	RX0025

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	547,065.8020	
Easting (M)	396,268.8180	
Elevation (M)*	82.958	
Northing (SFT)	1,794,831.7187	
Easting (SFT)	1,300,091.9471	
Elevation (SFT)*	272.171	

Convergence Angle	0	1	21.3756270
Scale Factor			0.999918734
Elevation Adjust. Factor			0.9999869814
Combined Adjust. Factor			0.9999057164

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	59	33.4584708
Longitude	92	2	25.3939272
Ellipsoid Height (M):	56.400		
Geoid Height (M):	-26.558		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 29.96 KM (18.62 MILES) TO THE STATION ON THE LEFT. THE STATION IS 2.96 KM (1.84 MILES) NORTH OF THE WOODLAWN PUBLIC SCHOOL. THE STATION IS 12.20 METERS EAST OF THE CENTER OF HWY. 15 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130007
Geodetic Azimuth	356 39 39.86832
Grid Azimuth	356 41 01.24433

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	130004 AHTD
Ref Mon # 3	93400004 AHTD

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130008	3/23/1995	AHTD	CLEVELAND	15	RX0025

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	550,505.1750	
Easting (M)	396,177.9320	
Elevation (M)*	88.377	
Northing (SFT)	1,806,115.7283	
Easting (SFT)	1,299,793.7652	
Elevation (SFT)*	289.950	

Convergence Angle	0	1	23.3881399
Scale Factor			0.999918487
Elevation Adjust. Factor			0.9999861310
Combined Adjust. Factor			0.9999046191

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	1	25.0915080
Longitude	92	2	28.9896864
Ellipsoid Height (M):	61.825		
Geoid Height (M):	-26.563		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE AHEAD ON HWY. 15 FOR 4.52 KM (2.81 MILES) TO THE STATION ON THE RIGHT IN THE SMALL VILLAGE OF RANDALL. THE STATION IS 11.0 METERS WEST OF THE CENTER OF HWY. 15, 8.20 METERS NORTH OF THE NORTHERN MOST ENTRANCE TO A METAL BARN AND HORSE CORRAL, 19.20 METERS NORTH OF A WATER VALVE AND 2.46 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	6" FENCE CORNER POST	215	5.80	19.0
MK # 2	18" CONCRETE CULVERT	165	4.90	16.1
MK # 3	NONE			

AZ Mark Station	130008A
Geodetic Azimuth	1 42 21.058072
Grid Azimuth	1 43 44.44618

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	93400004 AHTD
Ref Mon # 3	GLEN LAKE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130008A	3/23/1995	AHTD	CLEVELAND	15	RX0025

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	550,874.3961	
Easting (M)	396,189.0780	
Elevation (M)*	85.852	
Northing (SFT)	1,807,327.0812	
Easting (SFT)	1,299,830.3334	
Elevation (SFT)*	281.666	

Convergence Angle	0	1	23.1482092
Scale Factor	0.999918478		
Elevation Adjust. Factor	0.9999865272		
Combined Adjust. Factor	0.9999050063		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	1	37.0756956
Longitude	92	2	28.5610020
Ellipsoid Height (M):	59.288		
Geoid Height (M):	-26.564		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE SOUTH ON HWY. 15 FOR 4.15 KM (2.58 MILES) TO THE SMALL VILLAGE OF RANDALL AND THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS WEST OF THE CENTER OF HWY. 15, 2.70 METERS SOUTH OF A GUY WIRE AND 2.32 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	310	10.20	33.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130008
Geodetic Azimuth	181 42 21.29793
Grid Azimuth	181 43 44.44618

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	93400004 AHTD
Ref Mon # 3	GLEN LAKE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130009	3/23/1995	AHTD	CLEVELAND	15	RX0025,RX0030

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	553,091.3171
Easting (M)	396,141.1370
Elevation (M)*	80.154
Northing (SFT)	1,814,600.4295
Easting (SFT)	1,299,673.0470
Elevation (SFT)*	262.972

Convergence Angle	0	1	24.2139532
Scale Factor			0.999918493
Elevation Adjust. Factor			0.9999874214
Combined Adjust. Factor			0.9999059154

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	2	49.0401600
Longitude	92	2	30.4562832
Ellipsoid Height:			53.587
Grid Northing (Meters)			553,091.6010
Grid Easting (Meters)			396,141.3650

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:	GEOID99		
Latitude	34	2	49.0309440
Longitude	92	2	30.4651680
Ellipsoid Height (M):	54.220		
Geoid Height (M):	-25.796		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE AHEAD ON HWY. 15 FOR 1.89 KM (1.18 MILES) TO A SIDE ROAD RIGHT LEADING INTO A SUBDIVISION, TURN RIGHT ONTO A GRAVEL ROAD AND GO 47.3 METERS (155.18 FEET) TO THE STATION ON THE RIGHT. THE STATION IS 48.0 METERS EAST OF THE NORTH END OF A CONCRETE CROSS DRAIN, 7.0 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST.THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	88	31.50	103.3
MK # 2	POWER POLE	290	0.90	3.0
MK # 3	NONE			

AZ Mark Station	130009A
Geodetic Azimuth	268 39 37.75928
Grid Azimuth	268 41 01.96743

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	93400004 AHTD
Ref Mon # 3	GLEN LAKE

Comments

CONTACT CHARLES WOOLEY, RT 1 BOX 45, SAREPTA, LA 71071, 318-847-84338, ABOUT GPS INFORMATION ON TWO POINTS LOCATED IN HIS DEVELOPING SUBDIVISION ON HWY. 15 IN CLEVELAND COUNTY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130009A	3/23/1995	AHTD	CLEVELAND	15	RX0025

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	553,086.2110	
Easting (M)	395,906.7550	
Elevation (M)*	83.167	
Northing (SFT)	1,814,583.6773	
Easting (SFT)	1,298,904.0787	
Elevation (SFT)*	272.857	

Convergence Angle	0	1	29.3289440
Scale Factor			0.999918493
Elevation Adjust. Factor			0.9999869486
Combined Adjust. Factor			0.9999054426

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	2	48.8620104
Longitude	92	2	39.6041280
Ellipsoid Height (M):	56.600		
Geoid Height (M):	-26.567		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 22.14 KM (13.76 MILES) TO THE JEFFERSON AND CLEVELAND COUNTY LINE, CONTINUE AHEAD ON HWY. 15 FOR 1.89 KM (1.18 MILES) TO A GRAVEL SIDE ROAD RIGHT INTO A NEW SUBDIVISION, TURN RIGHT AND WEST ON GRAVEL ROAD AND GO 0.25 KM (0.16 MILES) TO A "T" JUNCTION AND THE STATION STRAIGHT AHEAD ACROSS THE GRAVEL ROAD. THE STATION IS 7.50 METERS WEST OF A NORTH-SOUTH GRAVEL ROAD, 3.35 METERS SOUTH OF A TELEPHONE JUNCTION BOX AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "130009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	335	1.65	5.4
MK # 2	12" TREE	240	19.50	64.0
MK # 3	10" PINE TREE	305	25.00	82.0

AZ Mark Station	130009
Geodetic Azimuth	88 39 32.63765
Grid Azimuth	88 41 01.96743

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	93400004 AHTD
Ref Mon # 3	GLEN LAKE

Comments

CONTACT CHARLES WOOLEY, RT 1 BOX 45, SAREPTA, LA 71071, 318-847-84338, ABOUT GPS INFORMATION ON TWO POINTS LOCATED IN HIS DEVELOPING SUBDIVISION ON HWY. 15 IN CLEVELAND COUNTY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130016	1/7/1997	AHTD	CLEVELAND	167	001914,RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	543,237.7890
Easting (M)	361,792.7480
Elevation (M)*	81.121
Northing (SFT)	1,782,272.6461
Easting (SFT)	1,186,981.7074
Elevation (SFT)*	266.143

Convergence Angle	0	13	52.9436669
Scale Factor			0.999919368
Elevation Adjust. Factor			0.9999872697
Combined Adjust. Factor			0.9999066387

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	57	26.7401628
Longitude	92	24	48.2120604
Ellipsoid Height:			54.381
Grid Northing (Meters)			543,238.1261
Grid Easting (Meters)			361,792.9895

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	57	26.7291900
Longitude	92	24	48.2214168
Ellipsoid Height (M):	55.164		
Geoid Height (M):	-25.982		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 15.13 KM (9.40 MI) TO THE STATION AND GARNER CEMETERY ON THE LEFT. THE STATION IS 18.30 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 15.00 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD AND 0.65 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130016 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Concrete right of way marker	177	4.55	14.9
MK # 2	Corner post of chain link fence	354	10.25	33.6
MK # 3				

AZ Mark Station	130016A
Geodetic Azimuth	357 34 18
Grid Azimuth	357 48 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130016A	1/7/1997	AHTD	CLEVELAND	167	001914,RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	543,670.8121
Easting (M)	361,776.1360
Elevation (M)*	73.157
Northing (SFT)	1,783,693.3227
Easting (SFT)	1,186,927.2062
Elevation (SFT)*	240.015

Convergence Angle	0	13	53.3439543
Scale Factor			0.999919279
Elevation Adjust. Factor			0.9999885194
Combined Adjust. Factor			0.9999077994

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	57	40.7927736
Longitude	92	24	48.9271716
Ellipsoid Height:			46.446
Grid Northing (Meters)			543,671.1448
Grid Easting (Meters)			361,776.3797

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	57	40.7819412
Longitude	92	24	48.9366108
Ellipsoid Height (M):	47.201		
Geoid Height (M):	-25.982		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 15.53 KM (9.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 9.50 METERS NORTH OF THE CENTER OF A LOG ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130016A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	130016
Geodetic Azimuth	177 34 18
Grid Azimuth	177 48 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130017	1/7/1997	AHTD	CLEVELAND	167	RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	551,135.1090
Easting (M)	362,082.1480
Elevation (M)*	68.907
Northing (SFT)	1,808,182.4368
Easting (SFT)	1,187,931.1806
Elevation (SFT)*	226.072

Convergence Angle	0	13	47.3251761
Scale Factor			0.999918475
Elevation Adjust. Factor			0.9999891864
Combined Adjust. Factor			0.9999076622

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	1	43.0945392
Longitude	92	24	38.1828528
Ellipsoid Height (M):	42.192		
Geoid Height (M):	-26.715		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 23.09 KM (13.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.920 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 6.743 METERS NORTH OF A LOG ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130017 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	358	33.06	108.5
MK # 2	ALLTELL UNDER GROUND CABLE MARKE R SIGN	173	19.49	63.9
MK # 3	NONE			

AZ Mark Station	130017A
Geodetic Azimuth	184 34 30.74368
Grid Azimuth	184 48 18.06896

Area Reference Monuments (used for Processing)

Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130017A	1/7/1997	AHTD	CLEVELAND	167	RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	550,509.1280	
Easting (M)	362,029.5280	
Elevation (M)*	62.754	
Northing (SFT)	1,806,128.6974	
Easting (SFT)	1,187,758.5431	
Elevation (SFT)*	205.885	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	1	22.7699868	
Longitude	92	24	40.1361480	
Ellipsoid Height (M):	36.039			
Geoid Height (M):	-26.715			

Convergence Angle	0	13	48.4184173
Scale Factor	0.999918489		
Elevation Adjust. Factor	0.9999901519		
Combined Adjust. Factor	0.9999086418		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 22.53 KM (14.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.30 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 5.50 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130017A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	58	38.48	126.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130017
Geodetic Azimuth	4 34 29.65068
Grid Azimuth	4 48 18.06896

Area Reference Monuments (used for Processing)

Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130018	3/28/2001	AHTD	CLEVELAND	63	070204

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	540,888.1437	
Easting (M)	397,178.4626	
Elevation (M)*	77.440	
Northing (SFT)	1,774,563.8515	
Easting (SFT)	1,303,076.3394	
Elevation (SFT)*	254.067	

Convergence Angle	0	1	1.4964649
Scale Factor			0.999919910
Elevation Adjust. Factor			0.9999878473
Combined Adjust. Factor			0.9999077583

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	56	12.9546852
Longitude	92	1	49.8758052
Ellipsoid Height (M):	51.573		
Geoid Height (M):	-25.748		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 114 WEST, LOCATED IN CALMER, GO SOUTH ON U.S. HIGHWAY 63 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT, SET SOUTH OF THE MT. OLIVE UNTIED METHODIST CHURCH. THE STATION IS 17.60 METERS NORTH OF A PAVED DRIVEWAY, 13.75 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.93 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130018 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 774.771 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF CMP	177	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130018A
Geodetic Azimuth	167 59 32.88241
Grid Azimuth	168 00 34.37435

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	S 197
Ref Mon # 3	K 124

Comments

Elevation based on BM917 from Job 070132 from Job 070088

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130018A	3/28/2001	AHTD	CLEVELAND	63	070204

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	540,130.3384
Easting (M)	397,339.4071
Elevation (M)*	73.274
Northing (SFT)	1,772,077.6186
Easting (SFT)	1,303,604.3715
Elevation (SFT)*	240.401

Convergence Angle	0	0	57.9839758
Scale Factor			0.999920118
Elevation Adjust. Factor			0.9999885010
Combined Adjust. Factor			0.9999086199

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	55	48.3592980	
Longitude	92	1	43.6000368	
Ellipsoid Height (M):	47.406			
Geoid Height (M):	-25.749			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 114 WEST, LOCATED IN CALMER, GO SOUTH ON U.S. HIGHWAY 63 FOR 0.86 KM (0.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 35.60 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 14.95 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.93 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "130018A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 774.771 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	130018
Geodetic Azimuth	347 59 36.38574
Grid Azimuth	348 00 34.37435

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	S 197
Ref Mon # 3	K 124

Comments

Elevation based on BM917 from Job 070132 from Job 070088

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130019	1/22/2003	AHTD	CLEVELAND	79	001942

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	546,334.3841
Easting (M)	381,661.5430
Elevation (M)*	
Northing (SFT)	1,792,432.0585
Easting (SFT)	1,252,167.9123
Elevation (SFT)*	

Convergence Angle	0	6	39.9232001
Scale Factor	0.999918827		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	59	9.1650912
Longitude	92	11	54.5432460
Ellipsoid Height (M):	47.233		
Geoid Height (M):	-25.757		

Location Description

TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 5.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.80 METERS EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 2.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130019 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LOG MILE 2.00 SIGN POST	268	5.55	18.2
MK # 2				
MK # 3				

AZ Mark Station	130019A
Geodetic Azimuth	180 07 36
Grid Azimuth	180 14 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130019A	1/22/2003	AHTD	CLEVELAND	79	001942

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	545,799.5230	
Easting (M)	381,659.3230	
Elevation (M)*		
Northing (SFT)	1,790,677.2684	
Easting (SFT)	1,252,160.6289	
Elevation (SFT)*		

Convergence Angle	0	6	39.9489967
Scale Factor			0.999918901
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	58	51.8045448	
Longitude	92	11	54.5893368	
Ellipsoid Height (M):	46.488			
Geoid Height (M):	-25.754			

Location Description

TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 5.66 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 79 AND 2.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130019A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	130019
Geodetic Azimuth	0 07 36
Grid Azimuth	0 14 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130020	1/22/2003	AHTD	CLEVELAND	79	001942

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	551,300.7450
Easting (M)	381,656.6940
Elevation (M)*	
Northing (SFT)	1,808,725.8609
Easting (SFT)	1,252,152.0036
Elevation (SFT)*	

Convergence Angle	0	6	40.2391041
Scale Factor			0.999918472
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	1	50.3612580
Longitude	92	11	55.1076720
Ellipsoid Height (M):	47.469		
Geoid Height (M):	-25.793		

Location Description

TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 2.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130020 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	130020A
Geodetic Azimuth	180 10 02
Grid Azimuth	180 16 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130020A	1/22/2003	AHTD	CLEVELAND	79	001942

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	550,311.3430	
Easting (M)	381,651.8860	
Elevation (M)*		
Northing (SFT)	1,805,479.7978	
Easting (SFT)	1,252,136.2293	
Elevation (SFT)*		

Convergence Angle	0	6	40.3021136
Scale Factor	0.999918494		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	1	18.2473680	
Longitude	92	11	55.2202512	
Ellipsoid Height (M):	43.475			
Geoid Height (M):	-25.785			

Location Description

TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 79 FOR 2.87 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.50 METERS WEST OF THE CENTER OF U.S. HIGHWAY 79 AND 3.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "130020A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	130020
Geodetic Azimuth	0 10 02
Grid Azimuth	0 16 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130021	9/22/2006	AHTD	CLEVELAND	167	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	548,970.5710
Easting (M)	362,005.4980
Elevation (M)*	70.626
Northing (SFT)	1,801,080.9484
Easting (SFT)	1,187,679.7047
Elevation (SFT)*	231.713

Convergence Angle	0	13	48.8078062
Scale Factor			0.999918566
Elevation Adjust. Factor			0.9999889166
Combined Adjust. Factor			0.9999074835

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	0	32.8292568
Longitude	92	24	40.8318696
Ellipsoid Height (M):	44.660		
Geoid Height (M):	-25.985		

Location Description

To reach the station from the Dallas and Cleveland county line on Hwy-167 north of Fordyce go north on Hwy-167 for 5.30 miles to the station on the right.45.6 feet east of the center of Hwy-167, 25.6 feet north of a dirt drive and 13.6 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "130021 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Under ground cable marker	034	8.20	26.9
MK # 2				
MK # 3				

AZ Mark Station	130021A
Geodetic Azimuth	002 26 39
Grid Azimuth	002 40 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130021A	9/22/2005	AHTD	CLEVELAND	167	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	549,544.3520	
Easting (M)	362,032.3000	
Elevation (M)*	69.922	
Northing (SFT)	1,802,963.4282	
Easting (SFT)	1,187,767.6376	
Elevation (SFT)*	229.402	

Convergence Angle	0	13	48.2734180
Scale Factor	0.999918531		
Elevation Adjust. Factor	0.9999890271		
Combined Adjust. Factor	0.9999075590		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	0	51.4562148
Longitude	92	24	39.8770776
Ellipsoid Height (M):	43.952		
Geoid Height (M):	-25.985		

Location Description

To reach the station from the Dallas and Cleveland county line north of Fordyce on Hwy-167 go north on Hwy-167 for 5.70 miles to the station on the right. 65.9 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "130021A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	195	11.80	38.7
MK # 2				
MK # 3				

AZ Mark Station	130021
Geodetic Azimuth	182 26 40
Grid Azimuth	182 40 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130022	9/22/2005	AHTD	CLEVELAND	167	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	552,886.8290
Easting (M)	362,138.1390
Elevation (M)*	75.142
Northing (SFT)	1,813,929.5381
Easting (SFT)	1,188,114.8777
Elevation (SFT)*	246.530

Convergence Angle	0	13	46.2566315
Scale Factor			0.999918485
Elevation Adjust. Factor			0.9999882078
Combined Adjust. Factor			0.9999066938

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	2	39.9579576
Longitude	92	24	36.2736828
Ellipsoid Height (M):	49.154		
Geoid Height (M):	-25.988		

Location Description

To reach the station from the Dallas and Cleveland county line on Hwy-167 north of Fordyce go north on Hwy-167 for 7.79 miles to the station on the right. 63 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "130022 2005" set on top of a 4 foot by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	135	7.40	24.3
MK # 2				
MK # 3				

AZ Mark Station	Farindale
Geodetic Azimuth	002 42 38
Grid Azimuth	002 56 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130023	12/2/2014	AHTD	CLEVELAND	63	RX0030

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	548,023.6067	
Easting (M)	396,255.5346	
Elevation (M)*		
Northing (SFT)	1,797,974.1163	
Easting (SFT)	1,300,048.3664	
Elevation (SFT)*		

Convergence Angle	0	1	21.6736045
Scale Factor	0.999918636		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	GEOID99			
Latitude	34	0	4.5465120	
Longitude	92	2	25.9263240	
Ellipsoid Height (M):	59.585			
Geoid Height (M):	-25.793			

Location Description

TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 7.45 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 60 FT. EAST OF THE CENTERLINE OF HWY. 63, AND 2 FT. WEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "130023 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL FENCE POST	265	0.80	2.6
MK # 2	POWER POLE	180	13.70	44.9
MK # 3	TELEPHONE BOX	175	21.50	70.5

AZ Mark Station	130023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	MSB6

Comments

34.0005 92.0226

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130023A	12/2/2014	AHTD	CLEVELAND	63	RX0030

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	547,461.0095
Easting (M)	396,267.5385
Elevation (M)*	
Northing (SFT)	1,796,128.3287
Easting (SFT)	1,300,087.7492
Elevation (SFT)*	
Convergence Angle	0 1 21.4069343
Scale Factor	0.999918691
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID99		
Latitude	33	59	46.2860160
Longitude	92	2	25.4498640
Ellipsoid Height (M):	56.454		
Geoid Height (M):	-25.794		

Location Description

TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 7.8 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 54 FT. EAST OF THE CENTERLINE OF HWY. 63, 2 FT. WEST OF A WITNESS POST, AND 17 FT. SOUTH OF A PAVED FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "130023A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	190	11.30	37.1
MK # 2	WOODEN FENCE POST	270	0.80	2.6
MK # 3				

AZ Mark Station	130023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	MSB6

Comments

33.5946 92.0226

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130024	5/2/2023	ARDOT	CLEVELAND	35	070526

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	545,231.6800	0.0010
Easting (M)	375,026.9730	0.0010
Elevation (M)*		

Northing (SFT)	1,788,814.2701	
Easting (SFT)	1,230,400.9939	
Elevation (SFT)*		

Convergence Angle	0	9	4.5451564
Scale Factor	0.999918990		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 18	
Latitude	33 58 32.8807488	
Longitude	92 16 12.9394632	
Ellipsoid Height (M):	45.721	0.0040
Geoid Height (M):	-25.905	0.0040

Location Description

TO REACH FROM THE JCT. OF HWY 35 AND HWY 79 IN RISON, HEAD WEST ON HWY 35 FOR 3.6 MILES TO CANOE LANDING ROAD. HEAD SOUTH/LEFT ON CANOE LANDING ROAD FOR 0.85 MILES TO A LOGGING ROAD ON THE RIGHT. THE POINT WILL BE APPROXIMATELY 250FT. NORTHWEST OF THE PULL IN OF THE LOGGING ROAD. THE STATION IS 13.8FT WEST OF THE CENTER OF THE LOGGING ROAD/TRAIL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "130024 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	130024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARMO

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130024-1	12/3/2018	AHTD	CALHOUN	8	070512

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	524,912.7279	0.0020
Easting (M)	369,182.2726	0.0020
Elevation (M)*		
Northing (SFT)	1,722,151.1748	
Easting (SFT)	1,211,225.5060	
Elevation (SFT)*		

Convergence Angle	0	11	10.5496262
Scale Factor	0.999927337		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	47	32.8069824
Longitude	92	19	58.0717956
Ellipsoid Height (M):	28.800	0.0080	
Geoid Height (M):	-26.023	0.0080	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-205 E OF FORDYCE, GO E ON SR-8 2.4 MILES TO STATION ON RIGHT. 21' S OF THE C/L SR-8. THE MARK IS A STANDARD 2½" CAP STAMPED "130024 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)		
Latitude	33	47	32.8069824
Longitude	92	19	58.0717956
Ellipsoid Height:	28.800		
Grid Northing (Meters)	524,912.7279		
Grid Easting (Meters)	369,182.2726		

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SE COR O BRF	287	5.79	19.0
MK # 2				
MK # 3				

AZ Mark Station	130024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARPB

Comments

ELEV. WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. **********NOTE**********THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130024A	5/2/2023	ARDOT	CLEVELAND	35	070526

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	545,265.0154	0.0010
Easting (M)	375,381.8588	0.0010
Elevation (M)*		
Northing (SFT)	1,788,923.6380	
Easting (SFT)	1,231,565.3151	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	58	33.9929364	
Longitude	92	15	59.1166908	
Ellipsoid Height (M):	40.707			0.0040
Geoid Height (M):	-25.899			0.0040

Convergence Angle	0	8	56.8086794
Scale Factor	0.999918985		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 35 AND HWY 79 IN RISON, HEAD WEST ON HWY 35 FOR 3.6 MILES TO CANOE LANDING ROAD. HEAD SOUTH/LEFT ON CANOE LANDING ROAD FOR 0.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS 28.2FT NORTH OF THE CENTER LINE OF CANOE LANDING ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "130024A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	RR TIE FENCE POST	177	14.10	46.3
MK # 2	RR TIE FENCE POST	250	19.40	63.6
MK # 3				

AZ Mark Station	130024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARMO

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130024A-1	12/3/2018	AHTD	CALHOUN	8	070512

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	524,977.2903	0.0020
Easting (M)	369,678.3942	0.0020
Elevation (M)*		
Northing (SFT)	1,722,362.9933	
Easting (SFT)	1,212,853.1983	
Elevation (SFT)*		

Convergence Angle	0	10	59.7592986
Scale Factor			0.999927293
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	33	47	34.9545048
Longitude	92	19	38.7927048
Ellipsoid Height:			27.800
Grid Northing (Meters)			524,977.2903
Grid Easting (Meters)			369,678.3942

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	47	34.9545048	
Longitude	92	19	38.7927048	
Ellipsoid Height (M):			27.800	0.0080
Geoid Height (M):			-26.020	0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-8 AND SR-205 E OF FORDYCE, GO E ON SR-8 2.7 MILES TO STATION ON RIGHT. 18.4' S OF THE C/L SR-8. 28' N OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "130024A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP	311	24.05	78.9
MK # 2				
MK # 3				

AZ Mark Station	130024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARPB

Comments

SUPERCEDED ELEV. (GEOID HT. -26.0201m) WAS GPS DERIVED AND BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARCM, ARMO & ARPB AND ON 2ND ORDER NGS BM's J 91 & T 83. OBSERVATIONS TO ALL WERE PERFORMED SIMULTANEOUS. **********NOTE**********THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130025	3/18/2024	ARDOT	CLEVELAND	35	07X281, 070622

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	543,219.6909	0.0010
Easting (M)	381,361.1186	0.0010
Elevation (M)*	70.916	
Northing (SFT)	1,782,213.2692	
Easting (SFT)	1,251,182.2699	
Elevation (SFT)*	232.662	

Convergence Angle	0	6	46.3409964
Scale Factor	0.999919359		
Elevation Adjust. Factor	0.9999888712		
Combined Adjust. Factor	0.9999082311		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	33	57	28.0498212	
Longitude	92	12	6.0099300	
Ellipsoid Height (M):	45.071			0.0010
Geoid Height (M):	-25.845			

Location Description

THE STATION IS ON THE NORTHEAST CORNER OF THE INTERSECTION OF HIGHWAY 35 AND HIGHWAY 79 IN RISON, CLEVELAND COUNTY, ARKANSAS. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 130025, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 43FT NORTH-NORTHEAST OF THE CENTERLINE OF HIGHWAY 35 AND 83FT EAST-SOUTHEAST OF THE CENTERLINE OF HIGHWAY 79, IN FRONT OF A DOLLAR GENERAL.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	DOLLAR GENERAL SIGN	220	36.00	118.1
MK # 2	SW CORNER OF DOLLAR GENERAL	293	49.00	160.8
MK # 3	CENTER OF METAL WELCOME TO RISON SIGN	3	27.00	88.6

AZ Mark Station	130025A
Geodetic Azimuth	288 30 02
Grid Azimuth	288 36 53.6

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARPB
Ref Mon # 3	ARMO

Comments

ELEV WAS EST BY STATIC OBS HOLDING AN OFFSET FROM NGS BM RV 184 BY CREW S5102 DURING JOB 07X281 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130025-1	12/7/2020	ARDOT	CALHOUN	274	07X138

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	506,667.9603	0.0020
Easting (M)	335,541.7109	0.0020
Elevation (M)*		
Northing (SFT)	1,662,293.1331	
Easting (SFT)	1,100,856.4298	
Elevation (SFT)*		

Convergence Angle	0	23	19.8093911	
Scale Factor	0.999943664			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	33	37	35.1306660	
Longitude	92	41	41.0410644	
Ellipsoid Height (M):	16.493			0.0060
Geoid Height (M):	-26.200			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 205N AND STATE HIGHWAY 274, EAST OF EAST CAMDEN, GO EAST ON HIGHWAY 274 0.25 MILES TO THE MARK ON THE RIGHT, WEST 31.8' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANMDARD 2 1/2" CAP STAMPED "2020 130025" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	248	8.60	28.2
MK # 2	RR SWITCH	30	28.41	93.2
MK # 3				

AZ Mark Station	130025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARGS

Comments

**********NOTE**********THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130025-1

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130025A	3/18/2024	ARDOT	CLEVELAND	35	07X281, 070622

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	543,382.3799	0.0010
Easting (M)	380,878.1136	0.0010
Elevation (M)*	56.509	
Northing (SFT)	1,782,747.0247	
Easting (SFT)	1,249,597.6110	
Elevation (SFT)*	185.396	

Convergence Angle	0	6	56.8779923
Scale Factor	0.999919326		
Elevation Adjust. Factor	0.9999911320		
Combined Adjust. Factor	0.9999104587		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	57	33.2990784
Longitude	92	12	24.8363928
Ellipsoid Height (M):	30.657		0.0030
Geoid Height (M):	-25.846		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 35 AND HIGHWAY 79 IN RISON, CLEVELAND COUNTY, ARKANSAS, TRAVEL WEST ALONG HIGHWAY 35 FOR 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 130025A, 2024 SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 36FT NORTHEAST OF A WITNESS POST AND 17FT SOUTHWEST OF THE CENTERLINE OF HIGHWAY 35.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	308	19.00	62.3
MK # 2	POWER POLE	108	29.00	95.1
MK # 3	CENTER OF 2 10FT GATES	144	36.00	118.1

AZ Mark Station	130025
Geodetic Azimuth	108 30 02
Grid Azimuth	108 36 53.6

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARPB
Ref Mon # 3	ARMO

Comments

ELEV WAS EST BY RUNNING DIGITAL LEVELS FROM GPS 130025 BY CREW S5102 DURING JOB 07X281 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130025A-1	12/7/2020	ARDOT	CALHOUN	274	07X138

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	506,202.9944	0.0020
Easting (M)	335,654.6946	0.0020
Elevation (M)*		
Northing (SFT)	1,660,767.6575	
Easting (SFT)	1,101,227.1105	
Elevation (SFT)*		

Convergence Angle	0	23	17.2874544	
Scale Factor			0.999944183	
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	33	37	20.0635824	
Longitude	92	41	36.5351172	
Ellipsoid Height (M):			16.221	0.0060
Geoid Height (M):			-26.199	0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 205N AND STATE HIGHWAY 274, EAST OF EAST CAMDEN, GO EAST ON HIGHWAY 274 0.55 MILES TO THE MARK ON THE RIGHT, WEST 47.1' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANMDARD 2 1/2" CAP STAMPED "2020 130025A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	135	4.18	13.7
MK # 2	SOUTHEAST CORNER 1-S-B BLDING	282	20.85	68.4
MK # 3				

AZ Mark Station	130025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARGS

Comments

**********NOTE**********THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130025A-1

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130026-1	12/7/2020	ARDOT	CALHOUN	274	07X134

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	505,386.5769	0.0020
Easting (M)	343,803.8167	0.0020
Elevation (M)*		
Northing (SFT)	1,658,089.1277	
Easting (SFT)	1,127,963.0220	
Elevation (SFT)*		

Convergence Angle	0	20	20.2251248	
Scale Factor			0.999945050	
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	33	36	55.2423960	
Longitude	92	36	20.1776472	
Ellipsoid Height (M):			36.704	0.0070
Geoid Height (M):			-26.143	0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 203S AND STATE HIGHWAY 274, NORTHWEST OF HAMPTON, GO WEST ON HIGHWAY 274 3.05 MILES TO THE MARK ON THE RIGHT, NORTH 24.8' OF THE C/L OF THE HIGHWAY AND 32.2' WEST OF A PRIVATE ROAD. THE MARK IS A STANMDARD 2 1/2" CAP STAMPED "2020 130026" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TRANSMISSION POLE	282	24.90	81.7
MK # 2				
MK # 3				

AZ Mark Station	130026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARGS

Comments

**********NOTE**********THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130026-1

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
130026A-1	12/7/2020	ARDOT	CALHOUN	274	07X134

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	505,366.0038	0.0020
Easting (M)	344,300.1093	0.0020
Elevation (M)*		
Northing (SFT)	1,658,021.6308	
Easting (SFT)	1,129,591.2753	
Elevation (SFT)*		

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	33	36	54.6695064	
Longitude	92	36	0.9193248	
Ellipsoid Height (M):	34.448			0.0070
Geoid Height (M):	-26.140			0.0070

Convergence Angle	0	20	9.4464211
Scale Factor	0.999945070		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 203S AND STATE HIGHWAY 274, NORTHWEST OF HAMPTON, GO WEST ON HIGHWAY 274 2.7 MILES TO THE MARK ON THE RIGHT, NORTH 21.1' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANMDARD 2 1/2" CAP STAMPED "2020 130026A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TRANSMISSION POLE	282	39.84	130.7
MK # 2				
MK # 3				

AZ Mark Station	130026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARGS

Comments

**********NOTE**********THIS GPS # IS DESIGNATED FOR CLEVELAND COUNTY AND INADVERTENTLY GOT USED IN CALHOUN COUNTY SO THE # GOT UPDATED FROM 130024 TO 130026A-1

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140001	4/20/1994	AHTD	COLUMBIA	82	RX0018,07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	477,691.1609	
Easting (M)	268,465.0376	
Elevation (M)*	78.242	
Northing (SFT)	1,567,225.0837	
Easting (SFT)	880,789.0442	
Elevation (SFT)*	256.698	

Convergence Angle	0	47	27.6555355
Scale Factor			0.999987458
Elevation Adjust. Factor			0.9999877215
Combined Adjust. Factor			0.9999751796

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	21	32.2118388
Longitude	93	24	47.8967400
Ellipsoid Height:			51.177
Grid Northing (Meters)			477,691.5011
Grid Easting (Meters)			268,465.3710

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	33	21	32.2006464	
Longitude	93	24	47.9094516	
Ellipsoid Height (M):			51.723	
Geoid Height (M):			-26.521	

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 53 NORTH IN BUCKNER, GO EAST ON HWY. 82 FOR 2.09 KM (1.30 MILES) TO A BRIDGE AT THE LAFAYETTE AND COLUMBIA COUNTY LINE AND THE STATION ON THE NORTHEAST CORNER BEHIND THE GUARD RAIL. THE STATION IS 8.1 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140001" SET ON TOP OF A REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST END OF PARAPET WALL	260	4.75	15.6
MK # 2	NORTHEASTERN MOST GUARD RAIL POST	90	13.00	42.7
MK # 3	NONE			

AZ Mark Station	370007
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140002	4/20/1994	AHTD	COLUMBIA	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	476,663.4801
Easting (M)	274,759.3730
Elevation (M)*	95.401
Northing (SFT)	1,563,853.4343
Easting (SFT)	901,439.7096
Elevation (SFT)*	312.995

Convergence Angle	0	45	11.1105035
Scale Factor			0.999989203
Elevation Adjust. Factor			0.9999850287
Combined Adjust. Factor			0.9999742319

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	21	1.5992064	
Longitude	93	20	43.9442844	
Ellipsoid Height (M):	68.319			
Geoid Height (M):	-27.065			

Location Description

FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTH MAGNOLIA, GO WEST ON HWY. 82 FOR 11.49 KM (7.14 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.3 METERS NORTH OF THE CENTERLINE OF HWY. 82, 8.3 METERS SOUTH OF THE SOUTHERN MOST RAIL OF A RAILROAD TRACK AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	140002A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	BEECH

Comments

Old ZC=93.384 M, **MONUMENT NOT FOUND IN MAY OF 2012**

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140002A	4/20/1994	AHTD	COLUMBIA	82	RX0018,07ST01,070619

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	476,581.6763	0.0010
Easting (M)	275,383.2958	0.0010
Elevation (M)*	89.816	
Northing (SFT)	1,563,585.0497	
Easting (SFT)	903,486.6963	
Elevation (SFT)*	294.673	

Convergence Angle	0	44	57.5827008
Scale Factor	0.999989340		
Elevation Adjust. Factor	0.9999859051		
Combined Adjust. Factor	0.9999752452		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	20	59.2096884
Longitude	93	20	19.7740104
Ellipsoid Height:	63.361		
Grid Northing (Meters)	476,581.6762		
Grid Easting (Meters)	275,383.2992		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	20	59.2096920	
Longitude	93	20	19.7741436	
Ellipsoid Height (M):	63.267			0.0070
Geoid Height (M):	-26.575			

Location Description

FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 10.90 KM (6.77 MILES) TO THE JCT. OF HWY. 82 AND HWY. 98 (WHICH LEADS EAST TO THE TOWN OF WALDO) AND THE STATION ON THE RIGHT IN A LARGE GRASSY ISLAND SEPARATING THE TWO LANES OF HWY. 98. THE STATION IS 21.0 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82 AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET GRATE	260	5.60	18.4
MK # 2	WEST EDGE OF CONCRETE ISLAND CURB	270	7.00	23.0
MK # 3	EAST EDGE OF CONCRETE ISLAND CURB	90	6.20	20.3

AZ Mark Station	140015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

**********Old ZC = 89.867 M**********
**********Old ZC = 89.882 M**********
UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM L 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140003	4/20/1994	AHTD	COLUMBIA	82	RX0018,07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	474,147.5753	
Easting (M)	278,438.2638	
Elevation (M)*	103.684	
Northing (SFT)	1,555,599.1700	
Easting (SFT)	913,509.5372	
Elevation (SFT)*	340.169	

Convergence Angle	0	43	50.7869435
Scale Factor			0.999993874
Elevation Adjust. Factor			0.9999837289
Combined Adjust. Factor			0.9999776030

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	19	41.4998184
Longitude	93	18	20.4182964
Ellipsoid Height:			76.780
Grid Northing (Meters)			474,147.9091
Grid Easting (Meters)			278,438.5730

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	19	41.4888564
Longitude	93	18	20.4300864
Ellipsoid Height (M):	77.275		
Geoid Height (M):	-26.411		

Location Description

FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 6.51 KM (4.05 MILES) TO THE STATION ON THE RIGHT IN FRONT OF "DELTIC CORP." TIMBER OPERATION. THE STATION IS 21.0 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82, 25.8 METERS NORTHWEST OF THE CENTER OF A GRAVEL COUNTY ROAD AND 1.10 METERSSOUTHWEST OF A WITNESS POST SET ALONG A FENCE LINE. THE STATION MARK IS A STANDARD2 1/2" ALUMINUM CAP STAMPED "140003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN FENCE CORNER POST	30	1.20	3.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	140003A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

PREVIOUS ELEV. (103.760 m) FROM UNDOCUMENTED SOURCE UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140003A	4/20/1994	AHTD	COLUMBIA	82	RX0018,07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	474,586.6987
Easting (M)	277,859.4123
Elevation (M)*	106.910
Northing (SFT)	1,557,039.8607
Easting (SFT)	911,610.4219
Elevation (SFT)*	350.753

Convergence Angle	0	44	3.4346176
Scale Factor			0.999993046
Elevation Adjust. Factor			0.9999832226
Combined Adjust. Factor			0.9999762688

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	19	55.5114540
Longitude	93	18	43.0158816
Ellipsoid Height:			79.929
Grid Northing (Meters)			474,587.0191
Grid Easting (Meters)			277,859.7220

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	19	55.5009276
Longitude	93	18	43.0277004
Ellipsoid Height (M):	80.493		
Geoid Height (M):	-26.419		

Location Description

FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 7.24 KM (4.50 MILES) TO THE STATION ON THE LEFT. THE STATION IS 20.9 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 82, 38.5 METERS NORTHWEST OF A FIELD ENTRANCE, 9.2 METERS NORTHEAST OF A FENCE LINE AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	140003
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

PREVIOUS ELEV. (106.945 m) FROM UNDOCUMENTED SOURCE UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM J 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140004	4/20/1994	AHTD	COLUMBIA	82	RX0018,07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	471,371.7886
Easting (M)	281,651.4759
Elevation (M)*	81.227
Northing (SFT)	1,546,492.2764
Easting (SFT)	924,051.5505
Elevation (SFT)*	266.493

Convergence Angle	0	42	40.5095469
Scale Factor			0.999999224
Elevation Adjust. Factor			0.9999872530
Combined Adjust. Factor			0.9999864770

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	18	12.7202184
Longitude	93	16	14.8538568
Ellipsoid Height:			54.351
Grid Northing (Meters)			471,372.1111
Grid Easting (Meters)			281,651.7780

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	18	12.7096308
Longitude	93	16	14.8653804
Ellipsoid Height (M):	54.856		
Geoid Height (M):	-26.369		

Location Description

FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHERN MAGNOLIA, GO WEST ON HWY. 82 FOR 2.17 KM (1.35 MILES) TO A BRIDGE OVER "BIG CREEK" AND THE STATION ON THE SOUTHWEST END OF THE BRIDGE BEHIND THE GUARD RAIL. THE STATION IS 7.9 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 82 AND 1.0 METER SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER OF PARAPET WALL	110	4.40	14.4
MK # 2	NORTHWEST CORNER OF PARAPET WALL	46	15.50	50.9
MK # 3	NONE			

AZ Mark Station	140016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

PREVIOUS ELEV. (81.244 m) FROM UNDOCUMENTED SOURCE UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140004A	4/20/1994	AHTD	COLUMBIA	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	471,988.1001	
Easting (M)	280,968.9160	
Elevation (M)*	88.680	
Northing (SFT)	1,548,514.2917	
Easting (SFT)	921,812.1852	
Elevation (SFT)*	290.944	

Convergence Angle	0	42	55.4419089
Scale Factor	0.999998020		
Elevation Adjust. Factor	0.9999860834		
Combined Adjust. Factor	0.9999841034		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	32.4370008
Longitude	93	16	41.5450488
Ellipsoid Height (M):	61.757		
Geoid Height (M):	-27.005		

Location Description

FROM THE JCT. OF HWY. 82-82B AND HWY. 19 IN NORTHWEST MAGNOLIA, GO WEST ON HWY. 82 FOR 3.14 KM (1.95 MILES) TO A GAS LINE RIGHT OF WAY CLEARING AND THE STATION ON THE RIGHT. THE STATION IS 18.6 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82, 11.0 METERS SOUTHWEST OF A FENCE AND 1.0 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "140004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS LINE MARKER	85	11.60	38.1
MK # 2	NBC IN 6" PINE TREE	343	18.30	60.0
MK # 3	NONE			

AZ Mark Station	140004
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	BEECH

Comments

MONUMENT NOT FOUND IN MAY OF 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140005A	9/10/2001	AHTD	COLUMBIA	N/A	070177,070304

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	467,438.2031
Easting (M)	285,916.4540
Elevation (M)*	100.749
Northing (SFT)	1,533,586.8380
Easting (SFT)	938,044.2328
Elevation (SFT)*	330.540
Convergence Angle	0 41 7.2263781
Scale Factor	1.000007131
Elevation Adjust. Factor	0.9999841895
Combined Adjust. Factor	0.9999913204

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 16 6.7268892
Longitude	93 13 28.1962344
Ellipsoid Height (M):	74.357
Geoid Height (M):	-26.311

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE COLUMBIA COUNTY COURT HOUSE, LOCATED IN MAGNOLIA, GO EAST ON U.S. HIGHWAY 82B (MAIN STREET) FOR 1.448 KM (0.9 MI) TO FREDRICK STREET. TURN LEFT (NORTH) ON N. FREDRICK STREET FOR 0.193 KM (0.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.80 METERS WEST OF THE CENTER OF FREDRICK STREET, 10.50 METERS SOUTH OF THE CENTER OF KROGER SHOPPING CENTER ENTRANCE, AND 1.820 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "140005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 386.432 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	2	19.80	65.0
MK # 2	LIGHT POLE	334	36.80	120.7
MK # 3	LIGHT POLE	255	13.20	43.3

AZ Mark Station	140005
Geodetic Azimuth	2 14 15
Grid Azimuth	2 55 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MOSS
Ref Mon # 3	AHTD HOPE 1

Comments

3-Wire levels ran in Job 070177 by S5101in 05/2002 from NGS H120. Verified March 2009 by Crew S5110 with Digital Levels from 2nd Order NGS mark Magnolia RM 2.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140006	5/19/2008	AHTD	Columbia	79	070301

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	477,742.5301
Easting (M)	289,387.1140
Elevation (M)*	109.826
Northing (SFT)	1,567,393.6175
Easting (SFT)	949,430.8898
Elevation (SFT)*	360.321
Convergence Angle	0 39 54.7621951
Scale Factor	0.999986876
Elevation Adjust. Factor	0.9999827650
Combined Adjust. Factor	0.9999696412

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	42.4977624
Longitude	93	11	18.7243944
Ellipsoid Height (M):	83.475		
Geoid Height (M):	-26.351		

Location Description

To reach the station from the junction of highways 79 and 98 east just north of McNeil go south on hwy-79 for 0.50 miles to the station on the left. 45.5 feet east of the center of hwy-79, 71.0 feet north of the center of a gravel drive and 8.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "140006 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole with guy wire	182	18.17	59.6
MK # 2				
MK # 3				

AZ Mark Station	140006A
Geodetic Azimuth	11 09 29
Grid Azimuth	11 49 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	TXMA
Ref Mon # 3	ARCM

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140006A	5/19/2008	AHTD	Columbia	79	070301

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	478,320.6451	
Easting (M)	289,508.1330	
Elevation (M)*	117.986	
Northing (SFT)	1,569,290.3165	
Easting (SFT)	949,827.9330	
Elevation (SFT)*	387.092	

Convergence Angle	0	39	52.2875357
Scale Factor	0.999985818		
Elevation Adjust. Factor	0.9999814845		
Combined Adjust. Factor	0.9999673028		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	22	1.3070640
Longitude	93	11	14.3029176
Ellipsoid Height (M):	91.633		
Geoid Height (M):	-26.353		

Location Description

To reach the station from the junction of highways 79 and 98 east just north of McNeil go south on hwy-79 for 0.20 miles to the station on the right. 46.0 feet west of the center of hwy-79, 67.4 feet north of a paved drive and 35.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "140006A 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	power pole w/guy	10	30.54	100.2
MK # 2	Service pole	245	4.15	13.6
MK # 3				

AZ Mark Station	140006
Geodetic Azimuth	191 09 31
Grid Azimuth	191 49 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	TXMA

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140007	5/19/2008	AHTD	Columbia	NA	070301,070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	481,450.6671
Easting (M)	293,340.9240
Elevation (M)*	68.069
Northing (SFT)	1,579,559.3970
Easting (SFT)	962,402.6815
Elevation (SFT)*	223.323

Convergence Angle	0	38	30.0688097
Scale Factor			0.999980174
Elevation Adjust. Factor			0.9999893179
Combined Adjust. Factor			0.9999694921

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order-3WR		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	23	44.3157216
Longitude	93	8	47.4026244
Ellipsoid Height (M):	41.729		
Geoid Height (M):	-26.340		

Location Description

To reach the station from the junction of highways 79 and 98 east just north of McNeil go north on hwy-79 for 2.50 miles to county road 62, turn right and go 0.30 miles on co. rd 62 to the station on the left. 28.0 feet north of the center of co. road 62 and 1.50 feet south of a witness post.. The station mark is a 2 1/2 inch cap stamped "140007 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	140007A
Geodetic Azimuth	93 54 42
Grid Azimuth	94 33 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

Elev. established by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140007A	5/19/2008	AHTD	Columbia	NA	070301,070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	481,415.9401	
Easting (M)	293,776.9950	
Elevation (M)*	74.217	
Northing (SFT)	1,579,445.4635	
Easting (SFT)	963,833.3578	
Elevation (SFT)*	243.494	

Convergence Angle	0	38	20.6165904
Scale Factor	0.999980226		
Elevation Adjust. Factor	0.9999883531		
Combined Adjust. Factor	0.9999685793		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order-3WR		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	23	43.3467852
Longitude	93	8	30.5143332
Ellipsoid Height (M):	47.881		
Geoid Height (M):	-26.336		

Location Description

To reach the station from the junction of highways 79 and 98 east just north of McNeil go north on hwy-79 for 2.50 miles to county road 62, turn right and go 0.60 miles on co. rd 62 to the station on the right about 10 feet above the road surface on top of a high bank. 36.7 feet south of the center of co. road 62 and 10.0 feet south of a witness post.. The station mark is a 2 1/2 inch cap stamped "140007A 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Cross tie post	329	3.20	10.5
MK # 2				
MK # 3				

AZ Mark Station	140007
Geodetic Azimuth	273 54 51
Grid Azimuth	274 33 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

Elev. established by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140008	5/20/2008	AHTD	Columbia	NA	070301

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	479,812.7741
Easting (M)	294,098.5300
Elevation (M)*	66.982
Northing (SFT)	1,574,185.7430
Easting (SFT)	964,888.2605
Elevation (SFT)*	219.757

Convergence Angle	0	38	13.2672174
Scale Factor	0.999983041		
Elevation Adjust. Factor	0.9999894885		
Combined Adjust. Factor	0.9999725296		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	22	51.4291584
Longitude	93	8	17.3832000
Ellipsoid Height (M):	40.656		
Geoid Height (M):	-26.326		

Location Description

To reach the station from the junction of highways 79 and 98 east just north of McNeil go north on hwy-79 for 2.50 miles to county road 62, turn right and go 0.70 miles on co. rd 62 to a gravel road on the right, turn right and go 1.0 miles to a gate and dim track road on the left, turn left and go 0.05 mile on dim track road to the station mark in the middle of the road. 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "140008 2008"" set on top of a 4.0 foot by 5/8 inch rebar and is 0.50 feet below the surface

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	95	26.52	87.0
MK # 2	48 inch white oak	277	40.54	133.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140009	9/13/2011	AHTD	COLUMBIA	79	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	470,479.0259	
Easting (M)	287,017.7637	
Elevation (M)*	108.002	
Northing (SFT)	1,543,563.2708	
Easting (SFT)	941,657.4464	
Elevation (SFT)*	354.335	

Convergence Angle	0	40	44.1903886
Scale Factor	1.000000879		
Elevation Adjust. Factor	0.9999830513		
Combined Adjust. Factor	0.9999839303		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	17	45.8468448
Longitude	93	12	47.0378052
Ellipsoid Height (M):	81.589		
Geoid Height (M):	-26.425		

Location Description

THE STATION MARK IS LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF STATE HIGHWAY 82W AND 79, NORTHEAST OF MAGNOLIA, 91.0 FEET SOUTHWEST OF THE SOUTH EDGE OF PAVEMENT OF HIGHWAY 82, 72.0 FEET NORTHWEST OF CENTERLINE OF HIGHWAY 79, 5.3 FEET WEST OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140009 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF HEADWALL	93	2.19	7.2
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140009A	9/13/2011	AHTD	COLUMBIA	79	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	469,981.4309
Easting (M)	286,934.8227
Elevation (M)*	107.807
Northing (SFT)	1,541,930.7445
Easting (SFT)	941,385.3308
Elevation (SFT)*	353.698

Convergence Angle	0	40	45.8568770
Scale Factor	1.000001884		
Elevation Adjust. Factor	0.9999830818		
Combined Adjust. Factor	0.9999849658		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	17	29.6647332
Longitude	93	12	50.0153220
Ellipsoid Height (M):	81.396		
Geoid Height (M):	-26.422		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82W, NORTHEAST OF MAGNOLIA, GO SOUTH ON HIGHWAY 79 0.3 MILES TO THE STATION MARK ON THE RIGHT, 75.6 FEET WEST OF CENTERLINE OF HIGHWAY 79, 3.0 FEET EAST OF WITNESS POST. THE STATION MARK IS A STANDAED 2 1/2 INCH CAP STAMPED "140009A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	353	1.04	3.4
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140010	9/13/2011	AHTD	COLUMBIA	82B	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	467,072.0520
Easting (M)	286,488.0040
Elevation (M)*	86.318
Northing (SFT)	1,532,385.5573
Easting (SFT)	939,919.3931
Elevation (SFT)*	283.195
Convergence Angle	0 40 54.7726933
Scale Factor	1.000007881
Elevation Adjust. Factor	0.9999864541
Combined Adjust. Factor	0.9999943350

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	15	55.0642752
Longitude	93	13	5.9452212
Ellipsoid Height (M):	59.921		
Geoid Height (M):	-26.408		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO WEST ON HIGHWAY 82B 0.1 MILES TO THE STATION MARK ON THE LEFT, EAST 31.0 FEET CENTERLINE OF UNNAMED PAVED DRIVE, SOUTH 8.4 FEET OF BACK OF CURB, NORTH 7.6 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140010 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	265	1.49	4.9
MK # 2	LIGHT POLE	181	9.75	32.0
MK # 3	TELEPHONE BOX	125	30.48	100.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140010A	9/13/2011	AHTD	COLUMBIA	82	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	466,852.9674
Easting (M)	287,027.4654
Elevation (M)*	85.836
Northing (SFT)	1,531,666.7772
Easting (SFT)	941,689.2761
Elevation (SFT)*	281.614

Convergence Angle	0	40	43.0514599
Scale Factor			1.000008327
Elevation Adjust. Factor			0.9999865297
Combined Adjust. Factor			0.9999948566

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	33	15	48.1614552	
Longitude	93	12	45.0028800	
Ellipsoid Height (M):	59.461			
Geoid Height (M):	-26.403			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 0.2 MILES TO THE STATION MARK ON THE LEFT, WEST 12.0 FEET OF CENTERLINE OF DRIVE , NORTH 76.0 FEET OF CENTERLINE HIGHWAY 82, SOUTH 84.8 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140010A 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	108	1.46	4.8
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140011	9/13/2011	AHTD	COLUMBIA	82	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	465,587.3254	
Easting (M)	291,135.8030	
Elevation (M)*	105.229	
Northing (SFT)	1,527,514.4167	
Easting (SFT)	955,168.0470	
Elevation (SFT)*	345.240	

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	33	15	8.6337144	
Longitude	93	10	5.7220212	
Ellipsoid Height (M):	78.852			
Geoid Height (M):	-26.370			

Convergence Angle	0	39	13.9034467
Scale Factor	1.000010901		
Elevation Adjust. Factor	0.9999834864		
Combined Adjust. Factor	0.9999943872		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 2.9 MILES TO THE STATION MARK ON THE LEFT, NORTH 16.2 FEET OF CENTERLINE HIGHWAY 82, SOUTH 47.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140011 2011" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	79	23.32	76.5
MK # 2	COMBINATION POLE	287	18.71	61.4
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140011A	9/13/2011	AHTD	COLUMBIA	82	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	465,533.5560
Easting (M)	291,806.7289
Elevation (M)*	98.283
Northing (SFT)	1,527,338.0083
Easting (SFT)	957,369.2431
Elevation (SFT)*	322.450
Convergence Angle	0 38 59.3844931
Scale Factor	1.000010999
Elevation Adjust. Factor	0.9999845764
Combined Adjust. Factor	0.9999955753

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid09
Latitude	33 15 7.1362944
Longitude	93 9 39.7809900
Ellipsoid Height (M):	71.907
Geoid Height (M):	-26.367

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 3.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 55.0 FEET OF CENTERLINE HIGHWAY 82, SOUTH 5.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140011A 2011" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	275	18.07	59.3
MK # 2	COMBINATION POLE WITH GUY	81	12.50	41.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140012	9/13/2011	AHTD	COLUMBIA	82	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	465,343.2954
Easting (M)	295,754.6153
Elevation (M)*	95.501
Northing (SFT)	1,526,713.7950
Easting (SFT)	970,321.6004
Elevation (SFT)*	313.322

Convergence Angle	0	37	33.9841848
Scale Factor			1.000011311
Elevation Adjust. Factor			0.9999850130
Combined Adjust. Factor			0.9999963239

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	15	2.3878656
Longitude	93	7	7.1961600
Ellipsoid Height (M):	69.155		
Geoid Height (M):	-26.349		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 5.8 MILES TO THE STATION MARK ON THE RIGHT, EAST 51.0 FEET OF CENTERLINE COUNTY ROAD 408, SOUTH 28.0 FEET OF CENTERLINE HIGHWAY 82, NORTH 45.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140012 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140012A	9/13/2011	AHTD	COLUMBIA	82	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	465,340.5068
Easting (M)	296,445.4314
Elevation (M)*	83.310
Northing (SFT)	1,526,704.6461
Easting (SFT)	972,588.0529
Elevation (SFT)*	273.326

Convergence Angle	0	37	19.0479442
Scale Factor	1.000011300		
Elevation Adjust. Factor	0.9999869261		
Combined Adjust. Factor	0.9999982260		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	15	2.5415676
Longitude	93	6	40.5095616
Ellipsoid Height (M):	56.977		
Geoid Height (M):	-26.346		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 6.2 MILES TO THE STATION MARK ON THE LEFT, EAST 83.0 FEET OF CENTERLINE OF GRAVEL DRIVEWAY, NORTH 6.3 FEET FROM NORTH EDGE OF PAVEMENT OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140012A 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	78	38.71	127.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140013	9/13/2011	AHTD	COLUMBIA	82	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	465,130.0320
Easting (M)	301,044.7961
Elevation (M)*	91.832
Northing (SFT)	1,526,014.1133
Easting (SFT)	987,677.8019
Elevation (SFT)*	301.284
Convergence Angle	0 35 39.5609722
Scale Factor	1.000011645
Elevation Adjust. Factor	0.9999855888
Combined Adjust. Factor	0.9999972337

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	Geoid09
Latitude	33 14 57.2947512
Longitude	93 3 42.7560732
Ellipsoid Height (M):	65.502
Geoid Height (M):	-26.325

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 82, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 82 9.05 MILES TO THE STATION MARK ON THE RIGHT, WEST 36.6 FEET OF CENTERLINE OF COUNTY ROAD 34, SOUTH 52.0 FEET FROM CENTERLINE OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140013 2011" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	120	17.37	57.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140013A	9/13/2011	AHTD	COLUMBIA	82	070365

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	465,139.1280	
Easting (M)	302,005.9105	
Elevation (M)*	91.709	
Northing (SFT)	1,526,043.9558	
Easting (SFT)	990,831.0580	
Elevation (SFT)*	300.882	

Convergence Angle	0	35	18.7837168
Scale Factor	1.000011605		
Elevation Adjust. Factor	0.9999856081		
Combined Adjust. Factor	0.9999972129		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	14	57.9120000
Longitude	93	3	5.6333268
Ellipsoid Height (M):	65.385		
Geoid Height (M):	-26.321		

Location Description

THE STATION MARK IS LOCATED IN THE NORTHWEST CORNER OF INTERSECTION OF STATE HIGHWAY 98 AND 82, 11.0 MILES EAST OF MAGNOLIA, WEST 85.0 FEET OF CENTERLINE OF STATE HIGHWAY 98, NORTH 47.2 FEET FROM CENTERLINE OF HIGHWAY 82,SOUTH 7.0 FEET FROM WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "140013A 2011" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH GUY	314	16.15	53.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS EST. FROM NGS BM H 120 AND N 205 DURING JOB 070365 IN FEB 2012 BY GARVER.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140014	5/8/2012	AHTD	COLUMBIA	82	07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	476,838.0919	
Easting (M)	270,632.5546	
Elevation (M)*	92.202	
Northing (SFT)	1,564,426.3065	
Easting (SFT)	887,900.3062	
Elevation (SFT)*	302.499	

Convergence Angle	0	46	40.4851331
Scale Factor	0.999988981		
Elevation Adjust. Factor	0.9999855307		
Combined Adjust. Factor	0.9999745119		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	21	5.4767988
Longitude	93	23	23.6300388
Ellipsoid Height (M):	65.705		
Geoid Height (M):	-26.497		

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 344E, WEST OF WALDO ,GO WEST ON HIGHWAY 82,0.3 MILES TO THE STATION ON THE RIGHT. WEST 128 FEET OF THE CENTER LINE OF COUNTY ROAD 131, 36.6 FEET NORTH OF THE CENTER LINE OF HIGHWAY 82,SOUTH 8.0 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140014 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	140014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140014A	5/10/2012	AHTD	COLUMBIA	82	07ST01,070619

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	476,776.4834	0.0020
Easting (M)	271,196.5579	0.0020
Elevation (M)*	95.254	
Northing (SFT)	1,564,224.1793	
Easting (SFT)	889,750.7070	
Elevation (SFT)*	312.511	

Convergence Angle	0	46	28.2593198
Scale Factor			0.999989081
Elevation Adjust. Factor			0.9999850518
Combined Adjust. Factor			0.9999741330

SUPERCEDED CONTROL

Horizontal Datum			NAD83(1997)
Latitude	33	21	3.7250064
Longitude	93	23	1.7860056
Ellipsoid Height:			68.762
Grid Northing (Meters)			476,776.4760
Grid Easting (Meters)			271,196.5619

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	21	3.7252440	
Longitude	93	23	1.7861640	
Ellipsoid Height (M):			68.646	0.0000
Geoid Height (M):			-26.608	

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 344E, WEST OF WALDO, IN THE SOUTH EAST CORNER OF THE INTERSECTION. SOUTH 81.6 FEET OF THE CENTER LINE OF HIGHWAY 82,EAST 46.7 FEET OF THE CENTER LINE OF HIGHWAY 344E,NOURTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140014A 2012"ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	170	3.05	10.0
MK # 2				
MK # 3				

AZ Mark Station	140014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). **COORDINATES UPDATED TO NAD 83(2011) IN APRIL 2025 DURING JOB 070619 BY CREW S5102.**

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140015	5/8/2012	AHTD	COLUMBIA	82	07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAVD 88

Northing (M)	476,663.1747	
Easting (M)	274,758.9103	
Elevation (M)*	95.203	
Northing (SFT)	1,563,852.4323	
Easting (SFT)	901,438.1915	
Elevation (SFT)*	312.344	

Convergence Angle	0	45	11.1204309
Scale Factor			0.999989203
Elevation Adjust. Factor			0.9999850598
Combined Adjust. Factor			0.9999742630

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	21	1.5890976
Longitude	93	20	43.9620216
Ellipsoid Height (M):	68.742		
Geoid Height (M):	-26.461		

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98 , WEST OF WALDO, GO WEST ON HIGHWAY 82, 0.4 MILES TO THE STATION ON THE RIGHT.SOUTH 27.6 FEET OF THE NEAREST RAIL, NORTH 70.2 FEET OF THE CENTERLINE OF HIGHWAY 82 .SOUTH 3.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140015 2012' ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	140002A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM L 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140016	5/8/2012	AHTD	COLUMBIA	82	07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	470,775.7394	
Easting (M)	282,395.5832	
Elevation (M)*	81.641	
Northing (SFT)	1,544,536.7383	
Easting (SFT)	926,492.8425	
Elevation (SFT)*	267.851	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	33	17	53.6629308	
Longitude	93	15	45.8199972	
Ellipsoid Height (M):	55.279			
Geoid Height (M):	-26.360			

Convergence Angle	0	42	24.2531164	
Scale Factor	1.000000396			
Elevation Adjust. Factor	0.9999871880			
Combined Adjust. Factor	0.9999875840			

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 WEST AND STATE HIGHWAY 371 , SOUTH OF MAGNOLIA, GO WEST ON HIGHWAY 82, 0.7 MILES TO THE STATION ON THE LEFT.SOUTHEAST 23.5 FEET OF THE CENTER LINE OF A FIELD ROAD.SOUTWEST 36.0 FEET OF THE CENTERLINE OF HIGHWAY 82 . THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "140016 2012' ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH EAST GATE POST	220	19.51	64.0
MK # 2	FIRE HYDRANT	218	19.20	63.0
MK # 3	GAS LINE VENT	168	23.16	76.0

AZ Mark Station	140004
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 203 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, Q 202, L 202, AND J 202. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140017	8/14/2017	AHTD	COLUMBIA	US 371	070444

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	468,274.2604	0.0030
Easting (M)	284,113.6586	0.0030
Elevation (M)*	89.694	

Northing (SFT)	1,536,329.8027	
Easting (SFT)	932,129.5616	
Elevation (SFT)*	294.270	

Convergence Angle	0	41	46.4304030	
Scale Factor	1.000005442			
Elevation Adjust. Factor	0.9999859244			
Combined Adjust. Factor	0.9999913663			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	16	33.1568040
Longitude	93	14	38.2421112
Ellipsoid Height (M):	63.245	0.0050	
Geoid Height (M):	-26.449	0.0050	

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-371 & US-82, SW OF MAGNOLIA, GO NORTH ON US-371 0.6 MILES TO THE STATION ON LEFT, IN ECONOMY INN LAWN. 29.5' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "140017 2017" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PP W/TRANSFORMER	330	7.32	24.0
MK # 2	FIRE HYDRANT	169	32.61	107.0
MK # 3	E END OF CHLNK FENCE	295	11.58	38.0

AZ Mark Station	140017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	SHRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #070444 IN AUG. 2017 FROM NGS 2ND ORDER BM T 203 TO NGS 2ND ORDER NGS BM H 120.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140017A	8/14/2017	AHTD	COLUMBIA	US 371	070444

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	468,711.2356	0.0030
Easting (M)	284,070.2985	0.0030
Elevation (M)*	85.028	

Northing (SFT)	1,537,763.4455	
Easting (SFT)	931,987.3043	
Elevation (SFT)*	278.963	

Convergence Angle	0	41	47.4830039	
Scale Factor	1.000004543			
Elevation Adjust. Factor	0.9999866565			
Combined Adjust. Factor	0.9999911994			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	16	47.3223252	
Longitude	93	14	40.1227944	
Ellipsoid Height (M):	58.574			0.0050
Geoid Height (M):	-26.453			0.0050

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-371 & US-82, SW OF MAGNOLIA, GO NORTH ON US-371 0.8 MILES TO THE STATION ON RIGHT. 25' EAST OF THE C/L OF THE HIGHWAY, 23.5' SOUTH OF CTR OF DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "140017A 2017" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP W/LIGHT	64	3.28	10.8
MK # 2	CTR OF DBL CHLNK GATE	6	7.44	24.4
MK # 3				

AZ Mark Station	140017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	SHRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #070444 IN AUG. 2017 FROM NGS 2ND ORDER BM T 203 TO NGS 2ND ORDER NGS BM H 120.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140018	2/24/2020	ARDOT	COLUMBIA	98	070514

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	474,095.2439	0.0030
Easting (M)	299,387.1047	0.0030
Elevation (M)*		
Northing (SFT)	1,555,427.4794	
Easting (SFT)	982,239.1927	
Elevation (SFT)*		

Convergence Angle	0	36	17.4463486
Scale Factor	0.999993505		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	19	47.7156252
Longitude	93	4	50.4459192
Ellipsoid Height (M):	48.890	0.0110	
Geoid Height (M):	-26.376	0.0110	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO WEST ON HIGHWAY 98 6.3 MILES TO THE MARK ON THE RIGHT, NORTHEAST 33' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELPHONE BOX	348	14.17	46.5
MK # 2	NE END 24" TWIN CMP	323	20.12	66.0
MK # 3				

AZ Mark Station	140018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	LTEC, SHRV

Comments

LAT: N 33-19-48 LONG: W 93-04-51

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140018A	2/24/2020	ARDOT	COLUMBIA	N/A	070514

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	474,378.9377	0.0030
Easting (M)	299,077.4397	0.0030
Elevation (M)*		
Northing (SFT)	1,556,358.2314	
Easting (SFT)	981,223.2334	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	19	56.8172172	
Longitude	93	5	2.5351440	
Ellipsoid Height (M):	57.885	0.0110		
Geoid Height (M):	-26.379	0.0110		

Convergence Angle	0	36	24.2125751
Scale Factor	0.999992969		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO WEST ON HIGHWAY 98 6.6 MILES TO THE MARK ON THE RIGHT, NORTHEAST 14' OF THE C/L OF THE HIGHWAY AND 13.5' SOUTHEAST OF A DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	10	10.36	34.0
MK # 2				
MK # 3				

AZ Mark Station	140018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	LTEC, SHRV

Comments

LAT: N 33-19-57 LONG: W 93-05-03

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140019	2/24/2020	ARDOT	COLUMBIA	N/A	070514

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	458,397.1668	0.0030
Easting (M)	300,435.6835	0.0030
Elevation (M)*		
Northing (SFT)	1,503,924.7047	
Easting (SFT)	985,679.4049	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	11	18.5614692	
Longitude	93	4	3.5725440	
Ellipsoid Height (M):	49.176			0.0110
Geoid Height (M):	-26.313			0.0110

Convergence Angle	0	35	51.2117570
Scale Factor	1.000026599		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 98 4.85 MILES TO THE MARK ON THE RIGHT, NORTHWEST 19.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIBER OPTIC MARKER	234	19.05	62.5
MK # 2	WATER WELL	319	30.48	100.0
MK # 3				

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	LTEC, SHRV

Comments

LAT: N 33-11-19 LONG: W 93-04-04

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140020	2/24/2020	ARDOT	COLUMBIA	N/A	070514

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	460,801.4792	0.0030
Easting (M)	302,324.0433	0.0030
Elevation (M)*		
Northing (SFT)	1,511,812.8530	
Easting (SFT)	991,874.7987	
Elevation (SFT)*		

Convergence Angle	0	35	10.9458809	
Scale Factor	1.000021093			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	12	37.2310776
Longitude	93	2	51.6294564
Ellipsoid Height (M):	52.704	0.0100	
Geoid Height (M):	-26.319	0.0100	

Location Description

TO REACH THE STATIOM MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 98 2.7 MILES TO A GAS LINE RIGHT OF WAY AND TURN LEFT (EAST) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SERVICE POLE W/METER LOOP	313		
MK # 2	POWER POLE W/ TRANSFORMER	353		
MK # 3				

AZ Mark Station	140020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	LTEC, SHRV

Comments

LAT: N 33-12-37 LONG: W 93-02-52

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
140020A	2/24/2020	ARDOT	COLUMBIA	N/A	070514

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	461,211.9252	0.0030
Easting (M)	302,271.3859	0.0030
Elevation (M)*		

Northing (SFT)	1,513,159.4579	
Easting (SFT)	991,702.0386	
Elevation (SFT)*		

Convergence Angle	0	35	12.1746514
Scale Factor	1.000020176		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	12	50.5353816
Longitude	93	2	53.8249020
Ellipsoid Height (M):	53.827	0.0100	
Geoid Height (M):	-26.321	0.0100	

Location Description

TO REACH THE STATIOM MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 98, EAST OF MAGNOLIA, GO EAST ON HIGHWAY 98 2.5 MILES TO THE MARK ON THE LEFT, EAST 40.5' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 140020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/GUT AND TRANSFORMER	0	8.17	26.8
MK # 2	GUY	25	10.21	33.5
MK # 3				

AZ Mark Station	140020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	LTEC, SHRV

Comments

LAT: N 33-12-51 LONG: W 93-02-54

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150001	8/26/1996	AHTD	CONWAY	9	R80092,080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	93,561.6161	0.0020
Easting (M)	334,604.4686	0.0020
Elevation (M)*	109.847	
Northing (SFT)	306,960.0688	
Easting (SFT)	1,097,781.4941	
Elevation (SFT)*	360.391	

Convergence Angle	0	25	3.9366542
Scale Factor			0.999961345
Elevation Adjust. Factor			0.9999827616
Combined Adjust. Factor			0.9999441073

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	10	28.3094940
Longitude	92	43	4.5261768
Ellipsoid Height:			80.826
Grid Northing (Meters)			93,562.0872
Grid Easting (Meters)			334,604.6080

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	10	28.2941760	
Longitude	92	43	4.5315480	
Ellipsoid Height (M):			81.292	0.0100
Geoid Height (M):			-28.543	

Location Description

THE STATION IS LOCATED ON THE NORTH EDGE OF MORRILTON NEAR THE NORTHWEST CORNER OF THE HWY-9 BRIDGE OVER INTERSTATE 40. 8.0 METERS WEST OF THE CENTER OF HWY-9, 5.20 METERS SOUTH OF THE END OF A METAL DRAIN PIPE, 4.60 METERS NORTH OF THE NORTHWEST END OF THE BRIDGE AND 0.74 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150001 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	169	4.37	14.3
MK # 2	PUNCH IN GUARD RAIL POST	137	1.40	4.6
MK # 3	PUNCH IN GUARD RAIL POST	14	3.12	10.2

AZ Mark Station	150001A
Geodetic Azimuth	259 36 19.5376
Grid Azimuth	260 01 23.5292

Area Reference Monuments (used for Processing)

Ref Mon # 1	D 293
Ref Mon # 2	P 291
Ref Mon # 3	M 49 BM OFFSET

Comments

ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150001A	8/26/1996	AHTD	CONWAY	I-40	R80092,080481,080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	93,472.7920	0.0020
Easting (M)	334,099.4658	0.0020
Elevation (M)*	103.005	
Northing (SFT)	306,668.6518	
Easting (SFT)	1,096,124.6640	
Elevation (SFT)*	337.942	

Convergence Angle	0	25	15.5350536
Scale Factor	0.999961448		
Elevation Adjust. Factor	0.9999838354		
Combined Adjust. Factor	0.9999452840		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2002)		
Latitude	35	10	25.2915420
Longitude	92	43	24.4639668
Ellipsoid Height:	74.579		
Grid Northing (Meters)	93,472.7794		
Grid Easting (Meters)	334,099.4545		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	10	25.2919560	
Longitude	92	43	24.4635240	
Ellipsoid Height (M):	74.448			0.0100
Geoid Height (M):	-28.552			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-95 AND INTERSTATE 40 IN MORRILTON GO EASTERLY ON I-40 FOR 2.01 KM. (1.25 MI.) TO THE STATION ON THE RIGHT NEAR THE 108 EXIT RAMP.1.14 METERS NORTH-NORTHEAST OF A CHAIN LINK RIGHT OF WAY FENCE AND 0.81 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150001A 1996" SET ON TOP OF AN IRON ROD 1.12 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER FENCE POST	102	33.57	110.1
MK # 2	COMBINATION POLE	112	35.32	115.9
MK # 3	NONE			

AZ Mark Station	150001
Geodetic Azimuth	79 36 08.05551
Grid Azimuth	80 01 23.52924

Area Reference Monuments (used for Processing)

Ref Mon # 1	D 293
Ref Mon # 2	P 291
Ref Mon # 3	M 49 BM OFFSET

Comments

Digital lvels were ran from NGS BM: X326 during Job 080841 by crew S5102 in August 2013. ELEV WAS UPDATED FROM 337.93 TO 337.942 DURING JOB 080494 BY S5101 IN SEPT 2014. NEW ELEV IS BASED OFF OF NGS UPDATED 1ST ORDER LEVEL RUN AROUND MORRILTION INCLUDING MARKS UACCM AND PJTC CAMPUS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150002	8/26/1996	AHTD	CONWAY	9	R80092,080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	95,735.1515	0.0020
Easting (M)	336,313.7740	0.0020
Elevation (M)*	117.253	
Northing (SFT)	314,091.0762	
Easting (SFT)	1,103,389.4402	
Elevation (SFT)*	384.687	

Convergence Angle	0	24	24.9831837
Scale Factor			0.999958961
Elevation Adjust. Factor			0.9999815996
Combined Adjust. Factor			0.9999405613

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	11	39.2386236
Longitude	92	41	57.5844216
Ellipsoid Height:			88.247
Grid Northing (Meters)			95,735.6321
Grid Easting (Meters)			336,313.9080

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	11	39.2229960	
Longitude	92	41	57.5895840	
Ellipsoid Height (M):			88.727	0.0090
Geoid Height (M):			-28.523	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-9 AND INTERSTATE 40 ON THE NORTH EDGE OF MORRILTON GO NORTHERLY ON HWY-9 FOR 3.30 KM. (2.05 MI.) TO THE STATION ON THE RIGHT. 10.30 METERS EAST OF THE CENTER OF HWY-9, 1.37 METERS WEST OF A WEB WIRE FENCE AND 1.14 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150002 1996" SET ON TOP OF AN IRON ROD 1.07 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	174	21.97	72.1
MK # 2	CONCRETE RIGHT OF WAY MARKER	90	1.28	4.2
MK # 3	WOODEN FENCE POST	0	29.55	96.9

AZ Mark Station	150002A
Geodetic Azimuth	359 09 33.24206
Grid Azimuth	359 33 58.22325

Area Reference Monuments (used for Processing)

Ref Mon # 1	D 293
Ref Mon # 2	P 291
Ref Mon # 3	M 49 BM OFFSET

Comments

ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150002A	8/26/1996	AHTD	CONWAY	9	R80092,080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	96,369.9958	0.0020
Easting (M)	336,308.9672	0.0020
Elevation (M)*	103.032	
Northing (SFT)	316,173.8946	
Easting (SFT)	1,103,373.6699	
Elevation (SFT)*	338.032	

Convergence Angle	0	24	25.1974855
Scale Factor			0.999958291
Elevation Adjust. Factor			0.9999838311
Combined Adjust. Factor			0.9999421228

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	11	59.8377732
Longitude	92	41	57.9527088
Ellipsoid Height:			74.016
Grid Northing (Meters)			96,370.4771
Grid Easting (Meters)			336,309.1010

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	11	59.8221240	
Longitude	92	41	57.9578640	
Ellipsoid Height (M):			74.507	0.0090
Geoid Height (M):			-28.525	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 9 AND INTERSTATE 40 IN MORRILTON GO NORTH ON HWY-9 FOR 3.94 KM. (2.45 MI.) TO THE STATION ON THE LEFT. 10.6 METERS WEST OF THE CENTER OF HWY-9 AND 0.84 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mmCAP STAMPED "150002A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	187	1.00	3.3
MK # 2	CROSS TIE CORNER POST	271	12.30	40.4
MK # 3	NONE			

AZ Mark Station	150002
Geodetic Azimuth	179 09 33.02978
Grid Azimuth	179 33 58.22325

Area Reference Monuments (used for Processing)

Ref Mon # 1	D 293
Ref Mon # 2	P 291
Ref Mon # 3	M 49 BM OFFSET

Comments

ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150003	9/5/1996	AHTD	CONWAY	9	R80092,080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	100,839.5588	0.0020
Easting (M)	337,867.4767	0.0020
Elevation (M)*	113.661	
Northing (SFT)	330,837.7858	
Easting (SFT)	1,108,486.8798	
Elevation (SFT)*	372.901	

Convergence Angle	0	23	50.0583568	
Scale Factor			0.999953842	
Elevation Adjust. Factor			0.9999821633	
Combined Adjust. Factor			0.9999360061	

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)	
Latitude	35	14	25.2273984	
Longitude	92	40	57.5663484	
Ellipsoid Height:			84.683	
Grid Northing (Meters)			100,840.0621	
Grid Easting (Meters)			337,867.5950	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	14	25.2110400	
Longitude	92	40	57.5708880	
Ellipsoid Height (M):			85.154	0.0090
Geoid Height (M):			-28.486	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-9 AND INTERSTATE 40 ON THE NORTH EDGE OF MORRILTON GO NORTHERLY ON HWY-9 FOR 9.09 KM. (5.65 MI.) TO THE STATION ON THE RIGHT. 12.02 METERS EAST-SOUTHEAST OF THE CENTER OF HWY-9 AND 0.56 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	35	29.79	97.7
MK # 2	FENCE CORNER POST	280	24.36	79.9
MK # 3	COMBINATION POLE	334	31.20	102.4

AZ Mark Station	150003A
Geodetic Azimuth	209 29 59.30691
Grid Azimuth	209 53 49.37974

Area Reference Monuments (used for Processing)

Ref Mon # 1	D 293
Ref Mon # 2	P 291
Ref Mon # 3	M 49 BM OFFSET

Comments

ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150004	9/22/1997	AHTD	CONWAY	95	080386, 080387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	93,601.6641	
Easting (M)	332,186.4420	
Elevation (M)*	102.090	
Northing (SFT)	307,091.4596	
Easting (SFT)	1,089,848.3518	
Elevation (SFT)*	334.939	

Convergence Angle	0	25	59.5502114
Scale Factor	0.999961320		
Elevation Adjust. Factor	0.9999839791		
Combined Adjust. Factor	0.9999452997		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	29.0110152
Longitude	92	44	40.1040528
Ellipsoid Height (M):	73.642		
Geoid Height (M):	-28.448		

Location Description

THE STATION IS AT THE JUNCTION OF INTERSTATE 40 AND STATE HIGWAY 95, LOCATED IN THE NORTHWEST PART OF MORRILTON. THE STATION IS 25.836 METERS SOUTH OF THE CENTER OF INTERSTATE 40 EAST BOUND LANE, 7.896 METERS WEST OF THE CENTER OF STATE HIGWAY 95 AND 0.78 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"X" CUT IN SW CORNER OF BRIDGE	347	2.56	8.4
MK # 2	"X" CUT IN SE CORNER OF BRIDGE	68	15.53	50.9
MK # 3	"X" CUT IN TO OF A GUARD RAIL POST	140	5.19	17.0

AZ Mark Station	150004A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARBT
Ref Mon # 3	D 210

Comments

ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM U 326 ON 11/2010 AND CHECKED USING GPS ON D 210.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150004A	9/22/1997	AHTD	CONWAY	247	080113

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	93,518.5941	
Easting (M)	332,992.1380	
Elevation (M)*	103.102	
Northing (SFT)	306,818.9208	
Easting (SFT)	1,092,491.7061	
Elevation (SFT)*	338.260	

Convergence Angle	0	25	41.0075450
Scale Factor	0.999961406		
Elevation Adjust. Factor	0.9999838202		
Combined Adjust. Factor	0.9999452268		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	26.5119636
Longitude	92	44	8.2382784
Ellipsoid Height (M):	74.066		
Geoid Height (M):	-29.036		

Location Description

THE STATION IS AT THE JUNCTION OF INTERSTATE 40 AND STATE HIGHWAY 247, LOCATED IN THE NORTH PART OF MORRILTON. THE STATION IS 24.54 METERS SOUTH OF THE CENTER OF INTERSTATE 40 EAST BOUND LANE, 6.33 METERS WEST OF THE CENTER OF STATE HIGHWAY 247, 1.635 METERS SOUTHEAST OF A WEB WIRE FENCE AND 1.19 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "150004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	182	63.36	207.9
MK # 2	GUY POLE	237	28.67	94.1
MK # 3	SQUARE CUT IN SW CORNER OF BRIDGE	358	2.58	8.5

AZ Mark Station	150004
Geodetic Azimuth	275 29 30.35396
Grid Azimuth	275 55 11.45444

Area Reference Monuments (used for Processing)

Ref Mon # 1	150001
Ref Mon # 2	D 293
Ref Mon # 3	11B AZ MK RESET

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150005	9/3/2002	AHTD	CONWAY	113	080209

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	92,187.9411
Easting (M)	326,859.0190
Elevation (M)*	
Northing (SFT)	302,453.2701
Easting (SFT)	1,072,369.9648
Elevation (SFT)*	

Convergence Angle	0	28	1.7979253
Scale Factor			0.999962971
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	9	41.7786192
Longitude	92	48	10.1880828
Ellipsoid Height (M):	63.214		
Geoid Height (M):	-28.530		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 113 LOCATED ON THE SOUTH SIDE OF BLACKWELL, GO SOUTHEAST ON STATE HIGHWAY 113 FOR 4.28 MILES TO THE STATION ON THE RIGHT. THE STATION IS 6.55 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 113, 6.25 METERS SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE, AND O.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "150005 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	150005A
Geodetic Azimuth	99 54 55
Grid Azimuth	100 22 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	AHTD LITTLE ROCK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150005A	9/3/2002	AHTD	CONWAY	113	080209

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	92,072.9151	
Easting (M)	327,486.8400	
Elevation (M)*		
Northing (SFT)	302,075.8890	
Easting (SFT)	1,074,429.7409	
Elevation (SFT)*		

Convergence Angle	0	27	47.3411104
Scale Factor			0.999963098
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	9	38.2115304	
Longitude	92	47	45.3438888	
Ellipsoid Height (M):	61.341			
Geoid Height (M):	-28.519			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 113 LOCATED ON THE SOUTH SIDE OF BLACKWELL, GO SOUTHEAST ON STATE HIGHWAY 113 FOR 4.69 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.90 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 113 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "150005A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	203	4.85	15.9
MK # 2				
MK # 3				

AZ Mark Station	150005
Geodetic Azimuth	99 54 55
Grid Azimuth	100 22 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	AHTD LITTLE ROCK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150006	1/11/2010	AHTD	CONWAY	124	080382

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	109,209.9981	
Easting (M)	354,871.1910	
Elevation (M)*	102.001	
Northing (SFT)	358,299.8021	
Easting (SFT)	1,164,273.2325	
Elevation (SFT)*	334.649	

Convergence Angle	0	17	19.6753792
Scale Factor	0.999946776		
Elevation Adjust. Factor	0.9999839929		
Combined Adjust. Factor	0.9999307698		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	0.1297632
Longitude	92	29	46.6934820
Ellipsoid Height (M):	73.964		
Geoid Height (M):	-28.036		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285, SOUTHWEST OF DAMASCUS, GO WEST ON 124 FOR 2.5 MILES TO THE STATION MARK ON THE LEFT IN THE CENTER OF A FIELD ROAD GOING TO A GREEN METAL GATE, EAST 34.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 23.6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150006 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	HINGED END OF GATE	137	6.86	22.5
MK # 2				
MK # 3				

AZ Mark Station	N 209
Geodetic Azimuth	203 14 48
Grid Azimuth	203 32 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARBT
Ref Mon # 3	ARLR

Comments

DIGITAL LEVELS WERE RAN BY CREW S5105 IN APRIL 2010 FROM NGS MARK N 209 AND M 209.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150007	1/14/2010	AHTD	CONWAY	124	080BR7

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	112,201.7561	
Easting (M)	329,300.2380	
Elevation (M)*	124.338	
Northing (SFT)	368,115.2615	
Easting (SFT)	1,080,379.1975	
Elevation (SFT)*	407.932	

Convergence Angle	0	27	9.3021494
Scale Factor	0.999944810		
Elevation Adjust. Factor	0.9999804877		
Combined Adjust. Factor	0.9999252988		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	20	31.8413508
Longitude	92	46	39.9735192
Ellipsoid Height (M):	95.888		
Geoid Height (M):	-28.450		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND 124, SOUTH OF JERUSALEM, GO WEST ON HIGHWAY 124 0.3 MILES TO THE STATION MARK ON THE RIGHT, EAST 52 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 9.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150007 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	15	5.85	19.2
MK # 2	CABLE MARKER	126	4.02	13.2
MK # 3				

AZ Mark Station	150007A
Geodetic Azimuth	336 03 46
Grid Azimuth	336 30 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARBT
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150007A	1/14/2010	AHTD	CONWAY	124	080BR7

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	112,638.3681
Easting (M)	329,110.5330
Elevation (M)*	127.907
Northing (SFT)	369,547.7127
Easting (SFT)	1,079,756.8070
Elevation (SFT)*	419.642
Convergence Angle	0 27 13.7534829
Scale Factor	0.999944525
Elevation Adjust. Factor	0.9999799276
Combined Adjust. Factor	0.9999244537

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 20 45.9601692
Longitude	92 46 47.6231844
Ellipsoid Height (M):	99.457
Geoid Height (M):	-28.449

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND 124, SOUTH OF JERUSALEM, GO WEST ON HIGHWAY 124 0.6 MILES TO THE STATION MARK ON THE LEFT, WEST 41 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH NORTHEAST 32.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150007A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ 3 GUYS	344	14.48	47.5
MK # 2	SERVICE POLE	206	9.90	32.5
MK # 3	CABLE MARKER	350	20.42	67.0

AZ Mark Station	150007
Geodetic Azimuth	156 03 42
Grid Azimuth	156 30 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARFY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150008	10/18/2010	AHTD	CONWAY	95	080386, 080387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	99,168.9731	
Easting (M)	333,192.4830	
Elevation (M)*	106.441	
Northing (SFT)	325,356.8726	
Easting (SFT)	1,093,149.0046	
Elevation (SFT)*	349.215	

Convergence Angle	0	25	37.3688029
Scale Factor	0.999955476		
Elevation Adjust. Factor	0.9999832962		
Combined Adjust. Factor	0.9999387730		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	29.9106552
Longitude	92	44	1.9850604
Ellipsoid Height (M):	77.990		
Geoid Height (M):	-28.451		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 95 2. 6 MILES TO THE MARK ON THE RIGHT, 22 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, 12.2 FEET WEST OF A FENCE, 63.3 SOUTH OF AN ASPHAULT DRIVEWAY AND WEST 12.1 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150008 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	25	16.37	53.7
MK # 2				
MK # 3				

AZ Mark Station	150008A
Geodetic Azimuth	0 10 56
Grid Azimuth	0 36 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARBT
Ref Mon # 3	D 210

Comments

ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150008A	11/18/2010	AHTD	CONWAY	95	080386, 080387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	99,753.9951
Easting (M)	333,198.7040
Elevation (M)*	112.505
Northing (SFT)	327,276.2323
Easting (SFT)	1,093,169.4147
Elevation (SFT)*	369.110
Convergence Angle	0 25 37.3259887
Scale Factor	0.999954907
Elevation Adjust. Factor	0.9999823446
Combined Adjust. Factor	0.9999372524

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 13 48.8956188
Longitude	92 44 1.9114836
Ellipsoid Height (M):	84.054
Geoid Height (M):	-28.451

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 95 2.9 MILES TO THE MARK ON THE LEFT, 24.2 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, 6.9 FEET EAST OF A FENCE, 31 FEET SOUTH OF A FIELD DRIVE AND EAST 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150008A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	150008
Geodetic Azimuth	180 10 56
Grid Azimuth	180 36 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARFY
Ref Mon # 3	D 210

Comments

ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150009	10/18/2010	AHTD	CONWAY	213	080386, 080387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	104,107.3101
Easting (M)	333,132.8920
Elevation (M)*	110.848
Northing (SFT)	341,558.7332
Easting (SFT)	1,092,953.4965
Elevation (SFT)*	363.675

Convergence Angle	0	25	39.5882679
Scale Factor			0.999950937
Elevation Adjust. Factor			0.9999826046
Combined Adjust. Factor			0.9999335424

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	16	10.1408052	
Longitude	92	44	5.7992352	
Ellipsoid Height (M):	82.409			
Geoid Height (M):	-28.439			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 213 0.10 MILES TO THE MARK ON THE LEFT, 29.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 13.9 FEET NORTH OF A FENCE, AND NORTH 13.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150009 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	150009A
Geodetic Azimuth	281 23 38
Grid Azimuth	281 49 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARFY
Ref Mon # 3	D 210

Comments

ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150009A	10/18/2010	AHTD	CONWAY	213	080386, 080387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,217.0771	
Easting (M)	332,608.4550	
Elevation (M)*	124.849	
Northing (SFT)	341,918.8605	
Easting (SFT)	1,091,232.9061	
Elevation (SFT)*	409.609	

Convergence Angle	0	25	51.6817779
Scale Factor			0.999950846
Elevation Adjust. Factor			0.9999804075
Combined Adjust. Factor			0.9999312544

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	16	13.5751152
Longitude	92	44	26.5820640
Ellipsoid Height (M):	96.401		
Geoid Height (M):	-28.448		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 213 AND STATE HIGHWAY 95, NORTH OF MORRILTON, GO NORTH ON HIGHWAY 213 0.47 MILES TO THE MARK ON THE LEFT, 25.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 14.9 FEET NORTH OF A FENCE, AND NORTH 14.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150009A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18 INCH RCP	95	121.13	397.4
MK # 2	5X5 R/W MARKER	275	24.38	80.0
MK # 3				

AZ Mark Station	150009
Geodetic Azimuth	101 23 26
Grid Azimuth	101 49 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARFY
Ref Mon # 3	D 210

Comments

ELEVATIONS WERE BY CREW S5112 USING 3 WIRE DIGITAL LEVELS FROM S 326 ON 11/2010 AND CHECKED USING GPS ON D 210 AND 150004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150010	10/14/2013	AHTD	CONWAY	92	BR2404, 08X344

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	116,292.2662	0.0010
Easting (M)	351,898.7731	0.0010
Elevation (M)*	176.768	
Northing (SFT)	381,535.5434	
Easting (SFT)	1,154,521.2247	
Elevation (SFT)*	579.945	

Convergence Angle	0	18	29.0297884
Scale Factor			0.999942230
Elevation Adjust. Factor			0.9999722602
Combined Adjust. Factor			0.9999144918

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	35	22	49.4419188
Longitude	92	31	45.8791140
Ellipsoid Height:			148.735
Grid Northing (Meters)			116,292.2635
Grid Easting (Meters)			351,898.7901

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	22	49.4420052	
Longitude	92	31	45.8797908	
Ellipsoid Height (M):			148.592	0.0050
Geoid Height (M):			-28.176	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 92, EAST OF CENTER RIDGE, GO EAST ON HIGHWAY 92 2.15 MILES TO THE MARK ON THE LEFT, EAST 38 FEET OF THE CENTERLINE OF HEMPHILL ROAD, NORTH 48 FEET OF THE CENTERLINE OF HIGHWAY 92 AND SOUTH 1.0 FOOT OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 150010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	150010A
Geodetic Azimuth	69 21 01.9
Grid Azimuth	69 39 25.6

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARBT
Ref Mon # 3	ARCW

Comments

ELEV. ESTABLISHED BY CONSTRAINING ELEV. ON AHTD GPS # 710006 DURING STATIC ADJUSTMENT TO AHTD GPS #150010A & THEN RAN DIGITAL LEVELS FROM AHTD GPS #150010A BY S5112 FOR JOB FSX005 IN OCT. 13. **Note: AHTD GPS #710006 ELEV. BASED ON 3WR LEVELS BY S5105 IN DEC. 09 FROM 2ND ORDER NGS BM H 210. *** POINT WAS UPDATED TO NAD83 (2011) BY CREW S5102 DURING JOB 08X344. ELEV IS BASED ON STATIC OBS HOLDING THE ARP ELEV AT ARRV***

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150010A	10/14/2013	AHTD	CONWAY	92	BR2404, 08X344

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	116,464.4985	0.0010
Easting (M)	352,363.3084	0.0010
Elevation (M)*	168.701	
Northing (SFT)	382,100.6088	
Easting (SFT)	1,156,045.2876	
Elevation (SFT)*	553.480	

Convergence Angle	0	18	18.3407346
Scale Factor			0.999942133
Elevation Adjust. Factor			0.9999735260
Combined Adjust. Factor			0.9999156605

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	35	22	55.1115444
Longitude	92	31	27.5100816
Ellipsoid Height:			140.672
Grid Northing (Meters)			116,464.5011
Grid Easting (Meters)			352,363.3199

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	22	55.1114580	
Longitude	92	31	27.5105352	
Ellipsoid Height (M):			140.530	0.0050
Geoid Height (M):			-28.168	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 92, EAST OF CENTER RIDGE, GO EAST ON HIGHWAY 92 2.45 MILES TO THE MARK ON THE RIGHT, NORTH 15 FEET OF A FENCE, SOUTH 24.1 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 14 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 150010A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE RIGHT OF WAY MONUMENT	87	12.19	40.0
MK # 2				
MK # 3				

AZ Mark Station	150010
Geodetic Azimuth	249 21 01.9
Grid Azimuth	249 39 25.6

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARBT
Ref Mon # 3	ARCW

Comments

ELEV. ESTABLISHED BY CONSTRAINING ELEV. ON AHTD GPS # 710006 DURING STATIC ADJUSTMENT BY S5112 FOR JOB FSX005 IN OCT. 13. (i.e. no levels involved in establishing this elevation, strictly Static GPS derived). **Note: AHTD GPS #710006 ELEV. BASED ON 3WR LEVELS BY S5105 IN DEC. 09 FROM 2ND ORDER NGS BM H 210. **** POINT WAS UPDATED TO NAD83 (2011). ELEV IS BASED ON A DIGITAL

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150011	8/18/2014	AHTD	CONWAY	9	080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,174.3098	0.0020
Easting (M)	336,938.6629	0.0020
Elevation (M)*	101.008	
Northing (SFT)	325,374.3814	
Easting (SFT)	1,105,439.5965	
Elevation (SFT)*	331.390	

Convergence Angle	0	24	11.1658283	
Scale Factor			0.999955445	
Elevation Adjust. Factor			0.9999841488	
Combined Adjust. Factor			0.9999395945	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	13	30.9644760	
Longitude	92	41	33.8443080	
Ellipsoid Height (M):			72.505	0.0100
Geoid Height (M):			-28.512	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 2.7 MILES TO THE MARK ON THE RIGHT, 36.5 FEET NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND WEST 2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150011 2014" ON TOP OF A 2.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF OVERCUP UNITE D METHODIST CHURCH	240	74.80	245.4
MK # 2	COMBINATION W/GUY	52	19.40	63.6
MK # 3				

AZ Mark Station	150011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150011A	8/18/2014	AHTD	CONWAY	9	080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,454.9016	0.0020
Easting (M)	337,564.5507	0.0020
Elevation (M)*	103.165	
Northing (SFT)	326,294.9563	
Easting (SFT)	1,107,493.0301	
Elevation (SFT)*	338.466	

Convergence Angle	0	23	56.8083611	
Scale Factor			0.999955167	
Elevation Adjust. Factor			0.9999838104	
Combined Adjust. Factor			0.9999389781	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	13	40.2116520	
Longitude	92	41	9.1708440	
Ellipsoid Height (M):			74.663	0.0090
Geoid Height (M):			-28.498	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 2.3 MILES TO THE MARK ON THE LEFT, 29.6 FEET SOUTHWEST OF THE CENTERLINE OF A DRIVEWAY, AND 30.1 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150011A 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/ TRANSFORMER	231	156.50	513.5
MK # 2	COMBINATION POLE W/ TRANSFORMER	97	67.40	221.1
MK # 3				

AZ Mark Station	150011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150012	8/18/2014	AHTD	CONWAY	9	080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	102,836.1396	0.0020
Easting (M)	338,486.9374	0.0020
Elevation (M)*	138.168	
Northing (SFT)	337,388.2347	
Easting (SFT)	1,110,519.2271	
Elevation (SFT)*	453.306	

Convergence Angle	0	23	36.1166310	
Scale Factor			0.999952014	
Elevation Adjust. Factor			0.9999783174	
Combined Adjust. Factor			0.9999303325	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	15	30.1372200	
Longitude	92	40	33.6118800	
Ellipsoid Height (M):	109.684			0.0100
Geoid Height (M):	-28.458			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 0.05 MILES TO THE MARK ON THE RIGHT, 49.7 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND WEST 12.2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150012 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/ GUY	265	58.00	190.3
MK # 2	POWER POLE W/ LIGHT	16	96.00	315.0
MK # 3				

AZ Mark Station	150012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150012A	8/18/2014	AHTD	CONWAY	9	080494

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	102,274.0771	0.0020
Easting (M)	338,466.1909	0.0020
Elevation (M)*	133.556	

Northing (SFT)	335,544.2013	
Easting (SFT)	1,110,451.1613	
Elevation (SFT)*	438.176	

Convergence Angle	0	23	36.5053698
Scale Factor	0.999952518		
Elevation Adjust. Factor	0.9999790411		
Combined Adjust. Factor	0.9999315601		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	35	15	11.8941120
Longitude	92	40	34.2799320
Ellipsoid Height (M):	105.064	0.0100	
Geoid Height (M):	-28.464		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 287, IN SOLGOHACHIA, GO SOUTH ON HIGHWAY 9 FOR 0.4 MILES TO THE MARK ON THE LEFT, 27.7 FEET EAST SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "150012A 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SERVICE POLE	151	90.30	296.3
MK # 2	TELEPHONE BOX	246	97.00	318.2
MK # 3				

AZ Mark Station	150012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV IS BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BMS UACCM1 AND PJTC CAMPUS AND CLOSED ON USGS 3RD ORDER 2JHR BY CREW S5101 AND S5112 DURING JOB 080494 IN AUGUST 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150013	10/21/2019	ARDOT	CONWAY	247	080615

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	86,251.4387	0.0040
Easting (M)	307,863.5778	0.0030
Elevation (M)*		
Northing (SFT)	282,976.5951	
Easting (SFT)	1,010,049.0882	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	6	23.4698364	
Longitude	93	0	38.3436720	
Ellipsoid Height (M):	79.789	0.0130		
Geoid Height (M):	-28.936	0.0130		

Convergence Angle	0	35	17.1490102
Scale Factor	0.999970470		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 154, IN PONTOON, GO SOUTH ON HIGHWAY 247 FOR 0.4 MILES TO THE MARK ON THE LEFT, EAST OF THE C/L OF THE HIGHWAY 45' AND SOUTH OF A GRAVEL DRIVEWAY 12'. THE MARK IS A STRANDARD 2 1/2" CAP STAMPED "2019 150013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF FENCE	92	1.62	5.3
MK # 2	PLASTIC COROGATED PIPE	306	8.08	26.5
MK # 3				

AZ Mark Station	150013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150013A	10/21/2019	ARDOT	CONWAY	247	080615

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	86,715.6254	0.0040
Easting (M)	307,849.1827	0.0040
Elevation (M)*		
Northing (SFT)	284,499.5143	
Easting (SFT)	1,010,001.8602	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	6	38.5271928	
Longitude	93	0	39.1002516	
Ellipsoid Height (M):	66.012		0.0120	
Geoid Height (M):	-28.946		0.0120	

Convergence Angle	0	35	17.5892633
Scale Factor	0.999969869		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 247 AND STATE HIGHWAY 154, IN PONTOON, GO SOUTH ON HIGHWAY 247 FOR 0.1 MILES TO THE MARK ON THE RIGHT, WEST OF THE C/L OF THE HIGHWAY 35.8' AND NORTH OF A GRAVEL DRIVEWAY 57'. THE MARK IS A STRANDARD 2 1/2" CAP STAMPED "2019 150013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	263	3.35	11.0
MK # 2				
MK # 3				

AZ Mark Station	150013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150014	4/6/2023	ARDOT	CONWAY	HWY 113	113

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	84,097.0298	0.0010
Easting (M)	332,351.9922	0.0010
Elevation (M)*	92.672	

Northing (SFT)	275,908.3386	
Easting (SFT)	1,090,391.4944	
Elevation (SFT)*	304.042	

Convergence Angle	0	25	54.0962135
Scale Factor	0.999973037		
Elevation Adjust. Factor	0.9999854569		
Combined Adjust. Factor	0.9999584943		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	5	20.6333592
Longitude	92	44	30.7312980
Ellipsoid Height (M):	64.194	0.0060	
Geoid Height (M):	-28.481	0.0060	

Location Description

From the intersection of Hwy 9/Hwy 113

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	116		
MK # 2				
MK # 3				

AZ Mark Station	150014A
Geodetic Azimuth	2°32'10.6"
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCW
Ref Mon # 2	ARDV
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150014A	4/6/2023	ARDOT	CONWAY	Hwy 113	113

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	84,450.9226	0.0010
Easting (M)	332,370.3395	0.0010
Elevation (M)*	91.489	

Northing (SFT)	277,069.4019	
Easting (SFT)	1,090,451.6888	
Elevation (SFT)*	300.160	

Convergence Angle	0	25	53.7359728
Scale Factor			0.999972561
Elevation Adjust. Factor			0.9999856426
Combined Adjust. Factor			0.9999582040

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	5	32.1214128
Longitude	92	44	30.1122204
Ellipsoid Height (M):	63.003		0.0060
Geoid Height (M):	-28.487		0.0060

Location Description

From the intersection of Hwy 9/Hwy 113

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLL W/TRANS	300	116.00	380.6
MK # 2	POWER POLL	16	82.00	269.0
MK # 3				

AZ Mark Station	150014
Geodetic Azimuth	182°32'10.6"
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCW
Ref Mon # 2	ARDV
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150015	4/6/2023	ARDOT	CONWAY	HWY 113	113

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	86,998.0001	0.0010
Easting (M)	332,397.8240	0.0010
Elevation (M)*	88.700	
Northing (SFT)	285,425.9387	
Easting (SFT)	1,090,541.8609	
Elevation (SFT)*	291.010	

Convergence Angle	0	25	53.5452924	
Scale Factor	0.999969226			
Elevation Adjust. Factor	0.9999860803			
Combined Adjust. Factor	0.9999553067			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	35	6	54.7789428	
Longitude	92	44	29.7845340	
Ellipsoid Height (M):	60.174			0.0060
Geoid Height (M):	-28.527			0.0060

Location Description

From the intersection of Hwy 9/Hwy 113

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER WELL FOR CROP FIELF	260	266.00	872.7
MK # 2				
MK # 3				

AZ Mark Station	150015A
Geodetic Azimuth	1°32'05.9"
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCW
Ref Mon # 2	ARDV
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
150015A	4/6/2023	ARDOT	CONWAY	HWY 113	113

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	87,386.7714	0.0010
Easting (M)	332,411.1724	0.0010
Elevation (M)*	87.196	
Northing (SFT)	286,701.4325	
Easting (SFT)	1,090,585.6548	
Elevation (SFT)*	286.076	

Convergence Angle	0	25	53.3058274
Scale Factor	0.999968730		
Elevation Adjust. Factor	0.9999863163		
Combined Adjust. Factor	0.9999550467		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	7	7.3975476
Longitude	92	44	29.3730108
Ellipsoid Height (M):	58.671	0.0060	
Geoid Height (M):	-28.532	0.0060	

Location Description

From the intersection of Hwy 9/Hwy 113

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	8 IN ELM TREE	18	57.50	188.6
MK # 2				
MK # 3				

AZ Mark Station	150015
Geodetic Azimuth	181°32'05.9"
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCW
Ref Mon # 2	ARDV
Ref Mon # 3	ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
16	1/22/2001	OF BENTONV	BENTON	CR 39	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	232,454.6626	
Easting (M)	197,187.0627	
Elevation (M)*	362.078	
Northing (SFT)	762,645.0055	
Easting (SFT)	646,937.8882	
Elevation (SFT)*	1,187.918	

Convergence Angle	-1	18	56.8175147
Scale Factor	1.000039083		
Elevation Adjust. Factor	0.9999431814		
Combined Adjust. Factor	0.9999822621		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	24	27.0983268
Longitude	94	15	40.2725772
Ellipsoid Height (M):	334.155		
Geoid Height (M):	-28.066		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO SOUTH ON STATE HIGHWAY 72 FOR 5.71 KM (3.55 MI) TO THE JUNCTION OF SHORT ROAD (OLD COUNTY ROAD 452) ON THE LEFT GO LEFT, EAST ON SHORT ROAD FOR 3.07 KM (1.91 MI) TO THE JUNCTION OF PUNKIN HOLLOW ROAD (OLD COUNTY ROAD 39) AND THE STATION ON THE LEFT. THE STATION IS 13.10 METERS NORTHEAST OF THE CENTER OF SHORT ROAD, 11.00 METERS SOUTHWEST OF THE CENTER OF PUNKIN HOLLOW ROAD 7.80 METER NORTHWEST OF THE CENTER OF A CROSSOVER ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A CITY OF BENTONVILLE SURVEY CONTROL POINT 90mm CAP STAMPED "16" SET IN A ROUND 0.54 METER DIAMETER CONCRETE MONUMENT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	14	4.85	15.9
MK # 2	SOUTHWEST END CMP	108	12.45	40.8
MK # 3	NONE			

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160001	5/1/1990	AHTD	CRAIGHEAD	49	R00094

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	170,729.6679	
Easting (M)	524,557.9030	
Elevation (M)*		

Northing (SFT)	560,135.5854	
Easting (SFT)	1,720,987.0534	
Elevation (SFT)*		

Convergence Angle	0	48	9.2485101
Scale Factor			0.999947850
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	51.7389300
Longitude	90	37	14.7949140
Ellipsoid Height (M):			
Geoid Height (M):	-28.693		

Location Description

THE STATION IS 5.5 FEET EAST OF A FENCE CORNER, 58 FEET NORTH OF THE CENTERLINE OF HWY. 49, 126 FEET EAST OF THE EDGE OF A FIELD ROAD, 190 FEET WEST OF A PAVED STREET ACROSS HWY. 49 FROM MAX'S AIRCRAFT SERVICE AND 3.61 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN TOP OF FENCE BRACE POST	325	3.73	12.2
MK # 2	NBC IN TOP OF FENCE CORNER POST	285	2.43	8.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90160002
Geodetic Azimuth	93 08 07
Grid Azimuth	92 19 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	FIRST
Ref Mon # 2	BOWMAN
Ref Mon # 3	NETTLE

Comments

Old point number 90160001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160002	5/1/1990	AHTD	CRAIGHEAD	49	R00094

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	170,703.9459
Easting (M)	525,189.3270
Elevation (M)*	
Northing (SFT)	560,051.1958
Easting (SFT)	1,723,058.6503
Elevation (SFT)*	
Convergence Angle	0 48 23.8847079
Scale Factor	0.999947824
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 51 50.6167164
Longitude	90 36 49.6424484
Ellipsoid Height (M):	
Geoid Height (M):	-28.695

Location Description

THE STATION IS 39 FEET WEST AND 39 FEET SOUTH OF A DOUBLE RC BOX ACROSS CO.RD., 2.5 FEET EAST OF A CONRETE SLAB WITH TELEPHONE JCT. BOX ANCHORED TO IT, 100 FEET SOUTH OF THE CENTERLINE OF HWY. 49 AND 35 FEET SOUTHEAST OF T14N R4E SECTION 1 AND 12 NW OF NE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	90	24.24	79.5
MK # 2	PUNCH POINT IN TOP OF FIRE HYDRANT	100	3.58	11.7
MK # 3	NBC IN POWER POLE	150	13.47	44.2

AZ Mark Station	90160001
Geodetic Azimuth	273 08 22
Grid Azimuth	272 19 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	FIRST
Ref Mon # 2	BOWMAN
Ref Mon # 3	NETTLE

Comments

Old point number 90160002

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160004A	11/4/1993	AHTD	CRAIGHEAD	NA	00412,RX0017,001784,10088

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,304.4940
Easting (M)	488,648.1610
Elevation (M)*	77.115
Northing (SFT)	535,774.8274
Easting (SFT)	1,603,173.1749
Elevation (SFT)*	253.002

Convergence Angle	0	34	14.6358711
Scale Factor			0.999943089
Elevation Adjust. Factor			0.9999878982
Combined Adjust. Factor			0.9999309879

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	48	4.8043404
Longitude	91	1	9.0871104
Ellipsoid Height:			
Grid Northing (Meters)			163,304.8173
Grid Easting (Meters)			488,648.1259

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	4.7938392
Longitude	91	1	9.0858396
Ellipsoid Height (M):	49.473		
Geoid Height (M):	-27.654		

Location Description

THE STATION IS LOCATED IN T-14-N R-1-E IN THE NW 1/4 OF THE SW 1/4 OF SECTION 32. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 7.60 KM (4.72 MILES) TO CO. RD. NO. 197 ON THE RIGHT LEADING NORTH, GO RIGHT (NORTH) ON CO. RD. NO. 197 FOR 0.578 KM (0.36 MILES) TO THE STATION ON THE RIGHT ON A SMALL KNOLL BY AN OLD HOUSE PLACE. THE STATION IS 5.234 METERS EAST OF THE CENTER OF CO. RD. NO. 197 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16004A" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE		29.31	96.2
MK # 2				
MK # 3				

AZ Mark Station	160030
Geodetic Azimuth	159 40 39
Grid Azimuth	159 06 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160005	1/4/1993	AHTD	CRAIGHEAD	NA	100412,RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	167,576.4040
Easting (M)	490,388.3690
Elevation (M)*	
Northing (SFT)	549,790.2521
Easting (SFT)	1,608,882.5073
Elevation (SFT)*	
Convergence Angle	0 34 55.9727380
Scale Factor	0.999945841
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 50 22.8302016
Longitude	90 59 58.0479828
Ellipsoid Height (M):	49.576
Geoid Height (M):	-27.701

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 50 22.8403104
Longitude	90 59 58.0484292
Ellipsoid Height:	
Grid Northing (Meters)	167,576.7154
Grid Easting (Meters)	490,388.3546

Location Description

THE STATION IS LOCATED IN T-14-N R-1-E IN THE NW 1/4 OF THE NW 1/4 OF SECTION 21. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH GO WEST ON HWY. 226 FOR 7.60 KM (4.72 MILES) TO CO. RD. NO. 197 ON THE RIGHT, GO RIGHT (NORTH) ON CO. RD. NO. 197 FOR 1.62 KM (1.0 MILE) TO CO. RD. NO. 189 ON THE RIGHT, GO RIGHT (EAST) ON CO. RD. NO. 189 FOR 0.80 KM (0.50 MILES) TO A CURVE LEFT, GO LEFT (NORTH) FOR 0.80 KM (0.50 MILES) TO A CURVE RIGHT, GO RIGHT (EAST) FOR 0.80 KM (0.50 MILES) TO THE JCT. WITH CO. RD. NO. 187, GO LEFT ON CO. RD. NO. 187 FOR 2.41 KM (1.50 MILES) TO A CURVE RIGHT AND THE STATION ON THE RIGHT. THE STATION IS 6.53 METERS SOUTH OF THE CENTER OF CO. RD. NO. 187, 46.047 METERS NORTHEAST OF A WELL AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160005" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	85	13.10	43.0
MK # 2				
MK # 3				

AZ Mark Station	160005A
Geodetic Azimuth	270 12 04
Grid Azimuth	269 37 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160005A	11/4/1993	AHTD	CRAIGHEAD	NA	100412,RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	167,572.9300
Easting (M)	489,866.1000
Elevation (M)*	
Northing (SFT)	549,778.8545
Easting (SFT)	1,607,169.0298
Elevation (SFT)*	

Convergence Angle	0	34	43.8621049
Scale Factor			0.999945842
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	50	22.8991812
Longitude	91	0	18.8608608
Ellipsoid Height:			
Grid Northing (Meters)			167,573.2379
Grid Easting (Meters)			489,866.0813

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	50	22.8891840
Longitude	91	0	18.8602380
Ellipsoid Height (M):	48.734		
Geoid Height (M):	-27.702		

Location Description

FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO WEST ON HWY. 226 FOR 4.72 MILES TO CO. RD. NO. 197 ON THE RIGHT, GO RIGHT (NORTH) ON CO. RD. NO. 197 FOR 1.0 MILE TO CO. RD. NO. 189 ON THE RIGHT, GO RIGHT (EAST) ON CO. RD. NO. 189 FOR 0.50 MILES TO A CURVE LEFT, GO LEFT (NORTH) FOR 0.50 MILES TO A CURVE RIGHT, GO RIGHT (EAST) FOR 0.50 MILES TO THE JCT. WITH CO. RD. NO. 187, GO LEFT ON CO. RD. NO. 187 FOR 1.50 MILES TO A CURVE RIGHT AND A FIELD ROAD ON THE LEFT, GO LEFT (EAST) ON THE FIELD ROAD FOR 0.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.81 METERS SOUTH OF THE CENTER OF THE FIELD ROAD AT THE BASE OF A LEVEE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	160005
Geodetic Azimuth	90 11 52
Grid Azimuth	89 37 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160006	11/4/1993	AHTD	CRAIGHEAD	N/A	RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	172,518.7299
Easting (M)	490,295.4090
Elevation (M)*	76.838
Northing (SFT)	566,005.1997
Easting (SFT)	1,608,577.5210
Elevation (SFT)*	252.093
Convergence Angle	0 34 54.9812580
Scale Factor	0.999949600
Elevation Adjust. Factor	0.9999879418
Combined Adjust. Factor	0.9999375424

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	53	3.2155368
Longitude	90	59	59.7518520
Ellipsoid Height (M):			
Geoid Height (M):	-28.582		

Location Description

THE STATION IS LOCATED IN T-14-N R-1-E IN THE NE 1/4 OF THE NE 1/4 OF SECTION 5. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILE) TO THE CRAIGHEAD AND LAWRENCE COUNTY LINE AND CO. RD. NO. 194 ON THE LEFT, TURN LEFT (WEST) ON CO. RD. NO. 194 AND GO 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191 AND A FIELD ROAD STRAIGHT AHEAD, GO STRAIGHT (WEST) ON THE FIELD ROAD FOR 0.16 KM (0.10 MILES) TO THE STATION IN THE CENTER OF THE FIELD ROAD. THE STATION IS 3.05 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160006" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	16006A
Geodetic Azimuth	271 52 14.71908
Grid Azimuth	271 17 19.69493

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160006A	11/4/1993	AHTD	CRAIGHEAD	N/A	RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	172,530.1179
Easting (M)	489,789.2310
Elevation (M)*	76.741
Northing (SFT)	566,042.5618
Easting (SFT)	1,606,916.8354
Elevation (SFT)*	251.774
Convergence Angle	0 34 43.2406820
Scale Factor	0.999949613
Elevation Adjust. Factor	0.9999879570
Combined Adjust. Factor	0.9999375706

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	53	3.7513608
Longitude	91	0	19.9281600
Ellipsoid Height (M):			
Geoid Height (M):	-28.580		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED IN T-14-N R-1-E IN THE NW 1/4 OF THE NE 1/4 OF SECTION 5. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD & LAWRENCE COUNTY LINE AND CO. RD. NO. 194 ON THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191 TO THE LEFT AND RIGHT AND A FIELD ROAD STRAIGHT AHEAD, CONTINUE STRAIGHT AHEAD ON THE FIELD ROAD FOR 0.67 KM (0.41 MILES) TO THE STATION IN THE CENTER OF THE FIELD ROAD. THE STATION IS 3.00 METERS SOUTH OF A WITNESS POST AND IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16006A" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	160006
Geodetic Azimuth	91 52 02.89273
Grid Azimuth	91 17 19.69493

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160008	11/8/1993	AHTD	CRAIGHEAD	226	100412,RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	162,583.3689
Easting (M)	500,040.3050
Elevation (M)*	75.175
Northing (SFT)	533,408.9361
Easting (SFT)	1,640,548.9007
Elevation (SFT)*	246.637

Convergence Angle	0	38	38.4675690
Scale Factor			0.999942598
Elevation Adjust. Factor			0.9999882027
Combined Adjust. Factor			0.9999308014

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	47	37.4892900
Longitude	90	53	35.6895708
Ellipsoid Height:			
Grid Northing (Meters)			162,583.7129
Grid Easting (Meters)			500,040.2664

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	37.4781156
Longitude	90	53	35.6881884
Ellipsoid Height (M):	47.485		
Geoid Height (M):	-27.651		

Location Description

THE STATION IS LOCATED IN T-14-N R-2-E IN THE SE 1/4 OF THE SE 1/4 OF SECTION 32. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 3.96 KM (2.47 MILES) TO CO. RD. NO. 161 AND THE STATION ON THE LEFT. THE STATION IS 12.290 METERS NORTH OF THE CENTERLINE OF HWY. 226, 10.980 METERS WEST OF THE CENTER OF CO. RD. NO. 161 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160008" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	165	21.55	70.7
MK # 2	NBC IN POWER POLE	19	51.56	169.1
MK # 3				

AZ Mark Station	160008A
Geodetic Azimuth	93 26 22
Grid Azimuth	92 47 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

3-Wire Levels were ran by S5110 in job 100412 August 2006 from NGS BM M-246 and K-183

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160008A	11/8/1993	AHTD	CRAIGHEAD	226	100412,RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	162,557.1690
Easting (M)	500,576.8520
Elevation (M)*	75.459
Northing (SFT)	533,322.9786
Easting (SFT)	1,642,309.2219
Elevation (SFT)*	247.568

Convergence Angle	0	38	50.8943089
Scale Factor			0.999942579
Elevation Adjust. Factor			0.9999881582
Combined Adjust. Factor			0.9999307378

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	47	36.4423596
Longitude	90	53	14.3347092
Ellipsoid Height:			
Grid Northing (Meters)			162,557.4926
Grid Easting (Meters)			500,576.7979

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	36.4318404
Longitude	90	53	14.3327004
Ellipsoid Height (M):			47.779
Geoid Height (M):			-27.650

Location Description

THE STATION IS LOCATED IN T-13-N R-2-E IN THE NE 1/4 OF THE NW 1/4 OF SECTION 4. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 4.57 KM (2.84 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 9.255 METERS WEST OF A FIELD ENTRANCE, 10.385 METERS SOUTH OF THE CENTERLINE OF HWY. 226, 43.423 METERS EAST OF A DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16008A" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	252	31.93	104.8
MK # 2	NBC IN POWER POLE	266	29.90	98.1
MK # 3	NBC IN POWER POLE	90	35.80	117.4

AZ Mark Station	160008
Geodetic Azimuth	273 26 35
Grid Azimuth	272 47 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160009	11/8/1993	AHTD	CRAIGHEAD	226	100412,RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	162,584.6269
Easting (M)	503,691.4340
Elevation (M)*	76.823
Northing (SFT)	533,413.0634
Easting (SFT)	1,652,527.6464
Elevation (SFT)*	252.043

Convergence Angle	0	40	3.0765236
Scale Factor			0.999942574
Elevation Adjust. Factor			0.9999879441
Combined Adjust. Factor			0.9999305188

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	47	36.1734288
Longitude	90	51	10.2885192
Ellipsoid Height:			
Grid Northing (Meters)			162,584.9467
Grid Easting (Meters)			503,691.3865

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	36.1630356
Longitude	90	51	10.2867768
Ellipsoid Height (M):	49.170		
Geoid Height (M):	-27.647		

Location Description

THE STATION IS LOCATED IN T-14-N R-2-E IN THE SW 1/4 OF THE SW 1/4 OF SECTION 35. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 7.644 KM (4.75 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.20 METERS NORTH OF THE CENTERLINE OF HWY. 226, 30 50 METERS EAST OF A FIELD ENTRANCE, 6.0 METERS FROM THE CENTER OF A FIELD ROAD, 6.00 METERS WEST OF A DRAINAGE DITCH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	156		
MK # 2	NBC IN POWER POLE	0		
MK # 3	CENTER OF TELEPHONE BOX	227		

AZ Mark Station	160009A
Geodetic Azimuth	270 59 23
Grid Azimuth	270 19 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183 The elev. was found to be 252.1248. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydralic Study from M 246.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160009A	11/8/1993	AHTD	CRAIGHEAD	226	100412,RX0017

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,586.9700	
Easting (M)	503,275.0610	
Elevation (M)*	76.987	
Northing (SFT)	533,420.7507	
Easting (SFT)	1,651,161.5960	
Elevation (SFT)*	252.583	

Convergence Angle	0	39	53.4284676
Scale Factor	0.999942579		
Elevation Adjust. Factor	0.9999879183		
Combined Adjust. Factor	0.9999304980		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	36.4071912
Longitude	90	51	26.8682508
Ellipsoid Height:			
Grid Northing (Meters)	162,587.3103		
Grid Easting (Meters)	503,275.0273		

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	36.3961356
Longitude	90	51	26.8670664
Ellipsoid Height (M):	49.327		
Geoid Height (M):	-27.648		

Location Description

THE STATION IS LOCATED IN T-14-N R-2-E IN THE SW 1/4 OF THE SW 1/4 OF SECTION 35. FROM THE JCT. OF HWY. 226 AND HWY. 18 IN THE TOWN OF CASH, GO EAST ON HWY. 226 FOR 7.22 KM (4.49 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.162 METERS NORTH OF THE CENTERLINE OF HWY. 226, 12.183 METERS EAST OF THE CENTER OF CO. RD. NO. 155 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	127	44.04	144.5
MK # 2	NBC IN POWER POLE	223	37.20	122.0
MK # 3	NBC IN POWER POLE	355	73.25	240.3

AZ Mark Station	160009
Geodetic Azimuth	90 59 14
Grid Azimuth	90 19 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183 The elev was found to be 252.6688. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydralic Study from M 246.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160010	9/9/2003	AHTD	CRAIGHEAD	226	00556,RX0017,100412,br161

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	162,637.4830
Easting (M)	509,781.6680
Elevation (M)*	85.596
Northing (SFT)	533,586.4755
Easting (SFT)	1,672,508.6891
Elevation (SFT)*	280.827

Convergence Angle	0	42	24.2205060
Scale Factor			0.999942563
Elevation Adjust. Factor			0.9999865674
Combined Adjust. Factor			0.9999291311

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	47	35.5181316
Longitude	90	47	7.7307396
Ellipsoid Height:			
Grid Northing (Meters)			162,637.7908
Grid Easting (Meters)			509,781.6282

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	35.5081272
Longitude	90	47	7.7293032
Ellipsoid Height (M):			57.807
Geoid Height (M):			-27.640

Location Description

THE STATION IS LOCATED IN T-14-N R-3-E IN THE SE 1/4 OF THE SE 1/4 OF SECTION 32. FROM THE JCT. OF HWY. 226 AND HWY. 63 IN WEST JONESBORO, GO WEST ON HWY. 226 FOR 7.11 KM (4.42 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.315 METERS WEST OF THE CENTERLINE OF HWY. 226, 7.333 METERS NORTH OF A PAVED FIELD ENTRANCE, 130.356 METERS NORTH OF THE JCT. OF HWY. 226 AND HWY. 226 SPUR AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160010" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	16010A
Geodetic Azimuth	3 33 54
Grid Azimuth	2 51 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2
Ref Mon # 3	PAR1

Comments

3wire levels ran by S5111 from NGS K183 under Job # 100611

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160010A	9/9/2003	AHTD	CRAIGHEAD	226	100556,RX0017,100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,209.3699
Easting (M)	509,810.2220
Elevation (M)*	91.425
Northing (SFT)	535,462.7411
Easting (SFT)	1,672,602.3700
Elevation (SFT)*	299.950

Convergence Angle	0	42	25.0457104
Scale Factor			0.999942894
Elevation Adjust. Factor			0.9999856526
Combined Adjust. Factor			0.9999285475

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	47	54.0612816
Longitude	90	47	6.3128292
Ellipsoid Height:			
Grid Northing (Meters)			163,209.6703
Grid Easting (Meters)			509,810.1769

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	54.0515184
Longitude	90	47	6.3111804
Ellipsoid Height (M):	63.636		
Geoid Height (M):	-27.643		

Location Description

THE STATION IS LOCATED IN T-14-N R-3-E IN THE NW 1/4 OF THE SW 1/4 OF SECTION 33. FROM THE JCT. OF HWY. 226 AND HWY. 63 IN WEST JONESBORO, GO WEST ON HWY. 226 FOR 6.55 KM (4.07 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS EAST OF THE CENTERLINE OF HWY. 226, 41.50 METERS SOUTH OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "16010A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	160010
Geodetic Azimuth	183 33 55
Grid Azimuth	182 51 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2
Ref Mon # 3	PAR1

Comments

3wire levels ran by S5111 from NGS K183 under Job # 100611

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160011	11/8/1993	AHTD	CRAIGHEAD	49	100556,RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	160,992.1609	
Easting (M)	512,617.6410	
Elevation (M)*	81.830	
Northing (SFT)	528,188.4479	
Easting (SFT)	1,681,813.0438	
Elevation (SFT)*	268.471	

Convergence Angle	0	43	29.4556720
Scale Factor	0.999941636		
Elevation Adjust. Factor	0.9999871584		
Combined Adjust. Factor	0.9999287951		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	46	40.9762128
Longitude	90	45	15.6219588
Ellipsoid Height (M):			
Geoid Height (M):	-28.566		

Location Description

THE STATION IS LOCATED IN T-13-N R-3-E IN THE SE 1/4 OF THE SE 1/4 OF SECTION 3. FROM THE JCT. OF HWY. 63 AND HWY. 49B, GO SOUTH ON HWY. 49B FOR 4.98 KM (3.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS ON A CLEAR LOT 65.814 METERS SOUTHWEST OF THE "VALLEY VIEW FIRE STATION", 15.20 METERS NORTH OF THE CENTERLINE OF HWY. 49, 28.584 METERS EAST OF THE CENTER OF "MAPLE VALLEY DRIVE", 15.341 METERS NORTHEAST OF A FIELD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160011" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	223	45.41	149.0
MK # 2	NBC IN POWER POLE	290	34.77	114.1
MK # 3	PUNCH POINT IN TOP OF FIRE HYDRANT	328	36.02	118.2

AZ Mark Station	16011A
Geodetic Azimuth	267 41 57.24703
Grid Azimuth	266 58 27.76089

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160011A	10/19/2004	AHTD	CRAIGHEAD	49	100611,100556,RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	160,962.4470
Easting (M)	512,060.7330
Elevation (M)*	82.202
Northing (SFT)	528,090.9615
Easting (SFT)	1,679,985.9215
Elevation (SFT)*	269.692

Convergence Angle	0	43	16.5442937
Scale Factor			0.999941624
Elevation Adjust. Factor			0.9999870999
Combined Adjust. Factor			0.9999287247

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	46	40.2491208
Longitude	90	45	37.8122292
Ellipsoid Height:			
Grid Northing (Meters)			160,962.7218
Grid Easting (Meters)			512,060.6812

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	40.2401820
Longitude	90	45	37.8103032
Ellipsoid Height (M):			54.576
Geoid Height (M):			-27.633

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49B OVERPASS ON HIGHWAY 63, WEST OF JONESBORO, GO SOUTH ON HIGHWAY 49 FOR 3.44 MILES TO THE STATION ON THE LEFT, NORTHWEST OF THE VALLEYVIEW CHURCH, 13.29 METERS OF THE CENTERLINE OF THE HIGHWAY AND 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "16011A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC POWER POLE	270	18.79	61.7
MK # 2	NBC POWER POLE	90	29.27	96.0
MK # 3	NBC POWER POLE	105	29.75	97.6

AZ Mark Station	160027
Geodetic Azimuth	87 17 54
Grid Azimuth	86 34 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2
Ref Mon # 3	BLMM

Comments

3wire levels ran by S5111 from NGS K183 under Job # 100611

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160012	9/9/2003	ARDOT	CRAIGHEAD	49	100959

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,353.1798	0.0013
Easting (M)	515,525.7930	0.0015
Elevation (M)*		
Northing (SFT)	539,215.3907	
Easting (SFT)	1,691,354.2059	
Elevation (SFT)*		

Convergence Angle	0	44	37.8437874	
Scale Factor	0.999943536			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	48	28.8142020	
Longitude	90	43	18.0962364	
Ellipsoid Height (M):	90.402			0.0084
Geoid Height (M):	-27.786			0.0084

Location Description

THE STATION IS NEAR THE JCT. OF HWY. 63 AND THE HWY. 49 OVERPASS IN WEST JONESBORO. THE STATION IS 131.240 METERS SOUTH OF BRIDGE NO. 4860 OVER HWY. 63 ON AN ELEVATED MEDIAN, 32.915 METERS WEST OF THE CENTERLINE OF HWY. 49, 20.286 METERS SOUTH OF THE HWY. 63 EAST EXIT RAMP ON HWY. 49, 78.10 METERS NORTH OF THE SERVICE ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	160012A RESET
Geodetic Azimuth	324 08 12
Grid Azimuth	323 23 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC

Comments

ELEVATION (387.7551 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
60012(OLD DATA	9/9/2003	AHTD	CRAIGHEAD	49	56,RX0017,100417,100727,10

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	164,353.1809	
Easting (M)	515,525.7630	
Elevation (M)*	118.172	
Northing (SFT)	539,215.3943	
Easting (SFT)	1,691,354.1074	
Elevation (SFT)*	387.703	

Convergence Angle	0	44	37.8430919
Scale Factor			0.999943536
Elevation Adjust. Factor			0.9999814553
Combined Adjust. Factor			0.9999249924

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	48	28.8233784
Longitude	90	43	18.0990192
Ellipsoid Height:			89.557
Grid Northing (Meters)			164,353.4617
Grid Easting (Meters)			515,525.7195

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	28.8142488
Longitude	90	43	18.0974316
Ellipsoid Height (M):	90.380		
Geoid Height (M):	-27.663		

Location Description

THE STATION IS NEAR THE JCT. OF HWY. 63 AND THE HWY. 49 OVERPASS IN WEST JONESBORO. THE STATION IS 131.240 METERS SOUTH OF BRIDGE NO. 4860 OVER HWY. 63 ON AN ELEVATED MEDIAN, 32.915 METERS WEST OF THE CENTERLINE OF HWY. 49, 20.286 METERS SOUTH OF THE HWY. 63 EAST EXIT RAMP ON HWY. 49, 78.10 METERS NORTH OF THE SERVICE ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	160012A RESET
Geodetic Azimuth	324 08 12
Grid Azimuth	323 23 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2
Ref Mon # 3	PAR1

Comments

ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160012A RESET	9/9/2003	ARDOT	CRAIGHEAD	63	100959

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,752.9422	0.0013
Easting (M)	515,228.8281	0.0016
Elevation (M)*		

Northing (SFT)	540,526.9445	
Easting (SFT)	1,690,379.9135	
Elevation (SFT)*		

Convergence Angle	0	44	31.0810150
Scale Factor			0.999943785
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid12B			
Latitude	35	48	41.9092452	
Longitude	90	43	29.7181344	
Ellipsoid Height (M):			90.846	0.0085
Geoid Height (M):			-27.787	0.0085

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 63 AND THE OVERPASS FOR STATE HIGHWAY 49, IN JONESBORO, GO NORTH ON HIGHWAY 63 0.30 MILES TO THE STATION MARK IN THE MEDIAN, SOUTHWEST 9.10 METERS FROM THE CENTERLINE OF OF THE SOUTH BOUND LANE, NORTHEAST 10.20 METERS OF THE NORTH BOUND LANE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160012A RESET 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	127	13.60	44.6
MK # 2				
MK # 3				

AZ Mark Station	160012
Geodetic Azimuth	144 08 06
Grid Azimuth	143 23 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC

Comments

ELEVATION (389.2151 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
RESET RESET (OI	9/9/2003	AHTD	CRAIGHEAD	63	100589,100556

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	164,752.9429	
Easting (M)	515,228.7970	
Elevation (M)*	118.614	
Northing (SFT)	540,526.9468	
Easting (SFT)	1,690,379.8115	
Elevation (SFT)*	389.154	

Convergence Angle	0	44	31.0802944
Scale Factor	0.999943785		
Elevation Adjust. Factor	0.9999813859		
Combined Adjust. Factor	0.9999251719		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	41.9092812
Longitude	90	43	29.7193728
Ellipsoid Height (M):	90.140		
Geoid Height (M):	-27.665		

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 63 AND THE OVERPASS FOR STATE HIGHWAY 49, IN JONESBORO, GO NORTH ON HIGHWAY 63 0.30 MILES TO THE STATION MARK IN THE MEDIAN, SOUTHWEST 9.10 METERS FROM THE CENTERLINE OF OF THE SOUTH BOUND LANE, NORTHEAST 10.20 METERS OF THE NORTH BOUND LANE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160012A RESET 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	127	13.60	44.6
MK # 2				
MK # 3				

AZ Mark Station	160012
Geodetic Azimuth	144 08 06
Grid Azimuth	143 23 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2
Ref Mon # 3	PAR1

Comments

ELEVATION BY 3 WIRE UNDER 100589 BY S5103 FROM NGS A 242

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160013	6/26/1995	ARDOT	CRAIGHEAD	N\A	100959

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	163,690.2766	0.0013
Easting (M)	524,592.2307	0.0016
Elevation (M)*		

Northing (SFT)	537,040.5158	
Easting (SFT)	1,721,099.6769	
Elevation (SFT)*		

Convergence Angle	0	48	7.7587773
Scale Factor			0.999943063
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	48	3.3379236	
Longitude	90	37	17.3550360	
Ellipsoid Height (M):	44.175			0.0070
Geoid Height (M):	-27.862			0.0070

Location Description

THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DISTRICTTEN RESIDENT ENGINEER OFFICE IN JONESBORO. TEH STATION IS 31.0 METERS EAST OF THE MAIN ENTRANCE GATE IN THE REAR OF THE PARKING AREA CLOSE TO A WEATHER STATION AND 9.30 METERS WEST OF A WITNESS POST SET IN A CHAIN LINK FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS ABOUT 0.10 METERS BELOW THE GRAVEL SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEATHER STATION TOWER	133	9.90	32.5
MK # 2	SOUTHWEST CORNER OF CONCRETE SLAB	23	6.80	22.3
MK # 3	SOUTHEAST CORNER OF OFFICE BUILDING	222	28.00	91.9

AZ Mark Station	160013A
Geodetic Azimuth	273 56 33.1947
Grid Azimuth	273 08 25.42095

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC

Comments

ELEVATION (236.3414 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
60013(OLD DATA	6/26/1995	AHTD	CRAIGHEAD	N\A	DIST10,100664,100657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	163,690.2757	0.0020
Easting (M)	524,592.2275	0.0020
Elevation (M)*	72.019	
Northing (SFT)	537,040.5129	
Easting (SFT)	1,721,099.6664	
Elevation (SFT)*	236.282	

Convergence Angle	0	48	7.7587019
Scale Factor			0.999943063
Elevation Adjust. Factor			0.9999886980
Combined Adjust. Factor			0.9999317617

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	48	3.3475536
Longitude	90	37	17.3590428
Ellipsoid Height:			43.305
Grid Northing (Meters)			163,690.5719
Grid Easting (Meters)			524,592.1260

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	48	3.3378984
Longitude	90	37	17.3551656
Ellipsoid Height (M):			44.157
Geoid Height (M):			-27.862

Location Description

THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DISTRICTTEN RESIDENT ENGINEER OFFICE IN JONESBORO. TEH STATION IS 31.0 METERS EAST OF THE MAIN ENTRANCE GATE IN THE REAR OF THE PARKING AREA CLOSE TO A WEATHER STATION AND 9.30 METERS WEST OF A WITNESS POST SET IN A CHAIN LINK FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS ABOUT 0.10 METERS BELOW THE GRAVEL SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEATHER STATION TOWER	133	9.90	32.5
MK # 2	SOUTHWEST CORNER OF CONCRETE SLAB	23	6.80	22.3
MK # 3	SOUTHEAST CORNER OF OFFICE BUILDING	222	28.00	91.9

AZ Mark Station	160013A
Geodetic Azimuth	273 56 33.1947
Grid Azimuth	273 08 25.42095

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT (160012 AHTD GPS)
Ref Mon # 2	ARPG (WALDENBURG 1954)
Ref Mon # 3	ARWY

Comments

PREVIOUS ELEV. 71.937m (NO NOTES ON WHAT PREVIOUS ELEV. WAS BASED ON.)
**********NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160013A	6/26/1995	ARDOT	CRAIGHEAD	18S	100959

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	163,705.8213	0.0013
Easting (M)	524,308.8084	0.0015
Elevation (M)*		
Northing (SFT)	537,091.5154	
Easting (SFT)	1,720,169.8156	
Elevation (SFT)*		

Convergence Angle	0	48	1.1955927
Scale Factor			0.999943074
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	48	3.9708612
Longitude	90	37	28.6339404
Ellipsoid Height (M):	51.310		0.0068
Geoid Height (M):	-27.859		0.0068

Location Description

THE STATION IS LOCATED ON THE SOUTHEAST CORNER OF THE HWY. 18 SPUR BRIDGE (BRIDGE NO. 6173) OVER HWY. 63 BYPASS ON THE SOUTH SIDE OF JONESBORO JUST ACROSS HWY. 63 FROM THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT RESIDENT ENGINEER OFFICE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	BENCH MARK CAP SET IN WINGWALL	13	2.30	7.5
MK # 2	FIFTH GUARDRAIL POST FROM THE END O F BRIDGE	200	1.90	6.2
MK # 3	NONE			

AZ Mark Station	160013
Geodetic Azimuth	93 56 26.59664
Grid Azimuth	93 08 25.42095

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC

Comments

ELEVATION (259.7403 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
0013A(OLD DAT	6/26/1995	AHTD	CRAIGHEAD	18S	DIST10,100664,100657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	163,705.8230	0.0020
Easting (M)	524,308.8094	0.0020
Elevation (M)*	79.160	
Northing (SFT)	537,091.5210	
Easting (SFT)	1,720,169.8188	
Elevation (SFT)*	259.710	

Convergence Angle	0	48	1.1956178
Scale Factor			0.999943074
Elevation Adjust. Factor			0.9999875774
Combined Adjust. Factor			0.9999306521

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	48	3.9807000
Longitude	90	37	28.6383684
Ellipsoid Height:			50.463
Grid Northing (Meters)			163,706.1230
Grid Easting (Meters)			524,308.6930

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	48	3.9709152
Longitude	90	37	28.6338972
Ellipsoid Height (M):			51.301
Geoid Height (M):			-27.859

Location Description

THE STATION IS LOCATED ON THE SOUTHEAST CORNER OF THE HWY. 18 SPUR BRIDGE (BRIDGE NO. 6173) OVER HWY. 63 BYPASS ON THE SOUTH SIDE OF JONESBORO JUST ACROSS HWY. 63 FROM THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT RESIDENT ENGINEER OFFICE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "160013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BENCH MARK CAP SET IN WINGWALL	13	2.30	7.5
MK # 2	FIFTH GUARDRAIL POST FROM THE END O F BRIDGE	200	1.90	6.2
MK # 3	NONE			

AZ Mark Station	160013
Geodetic Azimuth	93 56 26.59664
Grid Azimuth	93 08 25.42095

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT (160012 AHTD GPS)
Ref Mon # 2	ARPG (WALDENBURG 1954)
Ref Mon # 3	ARWY

Comments

PREVIOUS ELEV. 79.094m (NO NOTES ON WHAT PREVIOUS ELEV. WAS BASED ON.)
**********NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160014	6/6/1996	AHTD	CRAIGHEAD	63	100293, 100869

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	180,579.4916	0.0020
Easting (M)	505,637.2866	0.0020
Elevation (M)*	77.255	
Northing (SFT)	592,451.2154	
Easting (SFT)	1,658,911.6645	
Elevation (SFT)*	253.461	

Convergence Angle	0	40	53.1275851
Scale Factor			0.999956853
Elevation Adjust. Factor			0.9999878763
Combined Adjust. Factor			0.9999447298

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	57	19.2633876
Longitude	90	49	44.2749288
Ellipsoid Height:			48.542
Grid Northing (Meters)			180,579.7729
Grid Easting (Meters)			505,637.2470

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	57	19.2542472	
Longitude	90	49	44.2734816	
Ellipsoid Height (M):			49.357	0.0130
Geoid Height (M):			-27.906	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 5.79 KM. (3.60 MI.) TO THE STATION ON THE RIGHT IN AN OPEN AREA BETWEEN THE HIGHWAY AND THE RAILROAD TRACK. 19.83 METERS NORTHEAST OF THE CENTER OF HWY-63, 12.72 METERS SOUTHWEST OF THE SOUTHWEST RAIL OF A RAILROAD TRACK AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160014 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	349	34.77	114.1
MK # 2	POWER POLE	79	29.35	96.3
MK # 3	NONE			

AZ Mark Station	160014A
Geodetic Azimuth	310 25 02.8892
Grid Azimuth	309 44 09.7318

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK NW BASE
Ref Mon # 2	PARAPORT
Ref Mon # 3	160012

Comments

ELEVATION BY 3-WIRE USING USC&GS BENCH MARK "A 3 1928" ELEVATION = 76.733 METERS.Position updated by crew S5101 during 09/2016 for job 100869

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160014A	6/6/1996	AHTD	CRAIGHEAD	63	100293, 100869

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	180,824.5662	0.0020
Easting (M)	505,342.4723	0.0030
Elevation (M)*	77.243	
Northing (SFT)	593,255.2643	
Easting (SFT)	1,657,944.4279	
Elevation (SFT)*	253.421	

Convergence Angle	0	40	46.3494933
Scale Factor			0.999957107
Elevation Adjust. Factor			0.9999878782
Combined Adjust. Factor			0.9999449857

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	57	27.3282156
Longitude	90	49	55.9233804
Ellipsoid Height:			48.529
Grid Northing (Meters)			180,824.8500
Grid Easting (Meters)			505,342.4270

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	57	27.3189924	
Longitude	90	49	55.9217064	
Ellipsoid Height (M):			49.347	0.0130
Geoid Height (M):			-27.908	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 6.20 KM. (3.85 MI.) TO THE STATION ON THE RIGHT IN AN OPEN AREA BETWEEN THE HIGHWAY AND THE RAILROAD TRACK. 18.70 METERS NORTHEAST OF THE CENTER OF HWY-63, 13.79 METERS SOUTHWEST OF THE SOUTHWEST RAIL OF THE TRACK AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160014A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	2	29.21	95.8
MK # 2	0.60 METER OAK	28	30.21	99.1
MK # 3	NONE			

AZ Mark Station	160014
Geodetic Azimuth	130 24 56.0496
Grid Azimuth	129 44 09.7312

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK NW BASE
Ref Mon # 2	PARAPORT
Ref Mon # 3	160012

Comments

ELEVATION BY 3-WIRE USING USC&GS BENCH MARK "A 3 1928" ELEVATION = 76.733 METERS. Position updated by crew S5101 during 09/2016 for job 100869

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160015A	1/27/1998	AHTD	CRAIGHEAD	63B	100417, 100882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	169,440.5983	0.0020
Easting (M)	520,533.1077	0.0020
Elevation (M)*	94.220	0.0008
Northing (SFT)	555,906.3629	
Easting (SFT)	1,707,782.3708	
Elevation (SFT)*	309.119	

Convergence Angle	0	46	35.4956470
Scale Factor			0.999946923
Elevation Adjust. Factor			0.9999852141
Combined Adjust. Factor			0.9999321379

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	51	11.7159444
Longitude	90	39	55.9122156
Ellipsoid Height:			66.480
Grid Northing (Meters)			169,440.5919
Grid Easting (Meters)			520,533.0580

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	51	11.7161316	
Longitude	90	39	55.9102320	
Ellipsoid Height (M):	66.381			
Geoid Height (M):	-27.860			

Location Description

THE STATION IS LOCATED ON THE NORTHEAST SIDE OF JONESBORO AT THE JUNCTION OF U.S. HIGHWAY 63B (JOHNSON AVENUE), U.S. HIGHWAY 49 AND STATE HIGHWAY 1. THE STATION IS 19.362 METERS NORTH-NORTHWEST OF THE CENTER OF U.S. 63B WEST BOUND LANE AND 1.250 METERS SOUTH-SOUTEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160015A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	R/W SIGN	329	1.37	4.5
MK # 2	LIGHT POLE	71	45.67	149.8
MK # 3	LIGHT POLE=TBM 23	222	27.55	90.4

AZ Mark Station	160015
Geodetic Azimuth	65 16 38.16587
Grid Azimuth	64 30 02.70396

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	P 315
Ref Mon # 3	AHTD PAR1

Comments

Three wire levels done by crew S5113 in July 2016 in job 10882.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160017	4/27/1999	AHTD	CRAIGHEAD	1	53,100208, 100950,100833,10

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,968.8974	0.0010
Easting (M)	518,206.1256	0.0010
Elevation (M)*	76.612	0.0023
Northing (SFT)	514,988.7909	
Easting (SFT)	1,700,147.9304	
Elevation (SFT)*	251.352	

Convergence Angle	0	45	37.6939657
Scale Factor			0.999939671
Elevation Adjust. Factor			0.9999879772
Combined Adjust. Factor			0.9999276489

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	35	44	28.0911768
Longitude	90	41	35.2448304
Ellipsoid Height:			48.872
Grid Northing (Meters)			156,968.8899
Grid Easting (Meters)			518,206.0810

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	44	28.0914000	
Longitude	90	41	35.2430520	
Ellipsoid Height (M):			48.844	0.0000
Geoid Height (M):			-27.768	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTRAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 7.64 KM (4.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.18 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 9.00 METERS SOUTH OF THE CENTER OF A GRAVEL FEILD ENTRANCE AND 0.50 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160017 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	5	15.15	49.7
MK # 2	SOUTH END OF A HEADWALL	30	23.51	77.1
MK # 3	NONE			

AZ Mark Station	160017A
Geodetic Azimuth	180 28 17.05633
Grid Azimuth	179 42 39.36327

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2

Comments

Elevation updated by crew S5101 in October 2016 during job 100950. Based on NGS monument C 76.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160017A	4/27/1999	AHTD	CRAIGHEAD	1	001853,100208,101193

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,580.3320	0.0010
Easting (M)	518,208.0636	0.0010
Elevation (M)*	76.490	
Northing (SFT)	513,713.9726	
Easting (SFT)	1,700,154.2887	
Elevation (SFT)*	250.951	

Convergence Angle	0	45	37.6194104
Scale Factor	0.999939506		
Elevation Adjust. Factor	0.9999879964		
Combined Adjust. Factor	0.9999275031		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	44	15.4835880
Longitude	90	41	35.3711760
Ellipsoid Height (M):	48.743		0.0010
Geoid Height (M):	-27.767		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 8.05 KM (5.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 10.40 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160017A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END HEADWALL	80	12.06	39.6
MK # 2	POWER POLE	12	8.47	27.8
MK # 3	NONE			

AZ Mark Station	160017
Geodetic Azimuth	0 28 16.982015
Grid Azimuth	359 42 39.36327

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160018	4/27/1999	AHTD	CRAIGHEAD	1	001853,100208,100979

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	162,512.6919	
Easting (M)	520,218.9120	
Elevation (M)*	77.941	
Northing (SFT)	533,177.0567	
Easting (SFT)	1,706,751.5471	
Elevation (SFT)*	255.713	

Convergence Angle	0	46	26.0393167
Scale Factor	0.999942415		
Elevation Adjust. Factor	0.9999877686		
Combined Adjust. Factor	0.9999301843		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	27.0836232
Longitude	90	40	12.1610388
Ellipsoid Height (M):	50.257		
Geoid Height (M):	-27.688		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWY 1 AND U.S. HIGHWYAY 63, LOCATED ON THE SOUTH CENTRAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 1.77 KM (1.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 26.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 1 AND 1.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160018 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	STEELPIPE END POST	222	2.60	8.5
MK # 2	STEELPIPE IN LINE POST	312	2.20	7.2
MK # 3	NORTH END OF CONCRETE HEADWAL	125	15.70	51.5

AZ Mark Station	HC 65 + 19
Geodetic Azimuth	2 20 14.892117
Grid Azimuth	1 33 48.854359

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2

Comments

Elevation updated July 2019 by rewS5101 during job 100979. Levels ran from bm K330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160019	4/19/2000	AHTD	CRAIGHEAD	141	100126,100433

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	177,142.4596	
Easting (M)	516,464.9979	
Elevation (M)*	100.371	
Northing (SFT)	581,174.8862	
Easting (SFT)	1,694,435.5806	
Elevation (SFT)*	329.299	

Convergence Angle	0	45	3.4970527
Scale Factor	0.999953379		
Elevation Adjust. Factor	0.9999842488		
Combined Adjust. Factor	0.9999376286		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	23.3529348
Longitude	90	42	34.0108200
Ellipsoid Height (M):	72.720		
Geoid Height (M):	-27.782		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 141 AND STATE HIGHWAY 168 WEST, LOCATED ABOUT 17.7 KM (11.0 MI) NORTH OF JONESBORO, GO SOUTH ON STATE HIGHWAY 141 FOR 8.00 KM (4.97 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.85 METERS NORTH OF THE CENTER OF COUNTY ROAD 324, 6.60 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 141 AND 1.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160019 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 704.237 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	160019A
Geodetic Azimuth	92 03 46.540478
Grid Azimuth	91 18 43.110791

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR1
Ref Mon # 2	NEWSPORT
Ref Mon # 3	P 315

Comments

ELEVATION BY 3WIRE FROM 160019A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160019A	4/19/2000	AHTD	CRAIGHEAD	141	100126,100433

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	177,126.3362	
Easting (M)	517,169.0072	
Elevation (M)*	98.062	
Northing (SFT)	581,121.9880	
Easting (SFT)	1,696,745.3178	
Elevation (SFT)*	321.725	

Convergence Angle	0	45	19.8323664
Scale Factor	0.999953355		
Elevation Adjust. Factor	0.9999846111		
Combined Adjust. Factor	0.9999379668		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	22.5295428
Longitude	90	42	5.9384052
Ellipsoid Height (M):	70.401		
Geoid Height (M):	-27.786		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 141 AND STATE HIGHWAY 168 WEST, LOCATED ABOUT 17.7 KM (11.0 MI) NORTH OF JONESBORO, GO SOUTH ON STATE HIGHWAY 141 FOR 8.69 KM (5.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 141, 8.25 METERS SOUTH OF THE CENTER OF COUNTY ROAD 773 AND 5.08 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160019A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 704.237 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	5	17.80	58.4
MK # 2	FIRE HYDRANT	45	27.00	88.6
MK # 3	NONE			

AZ Mark Station	160019
Geodetic Azimuth	272 04 03.01051
Grid Azimuth	271 18 43.11079

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR1
Ref Mon # 2	NEWSPORT
Ref Mon # 3	P 315

Comments

ELEVATION BY CONSULTANT FOR CEL.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160020	6/10/2002	AHTD	CRAIGHEAD	158	100306

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,171.8529	
Easting (M)	537,049.6930	
Elevation (M)*		
Northing (SFT)	545,182.1541	
Easting (SFT)	1,761,970.5345	
Elevation (SFT)*		

Convergence Angle	0	52	57.3361920
Scale Factor	0.999944491		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	49	17.9070276
Longitude	90	28	59.7130896
Ellipsoid Height (M):	41.329		
Geoid Height (M):	-27.871		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 158 LOCATED ABOUT 10 MILES EAST OF JONESBORO, GO SOUTH ON STATE HIGH 158 0.07 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS WEST OF THE CENTER LINE OF STATE HIGHWAY 158, 4.20 METERS NORTH OF CENTER OF FIELD ENTRANCE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END RIENFORCED CONCRETE PIPE	110	2.70	8.9
MK # 2	SOUTH END REINFORCED CONCRETE PIPE	159	7.45	24.4
MK # 3				

AZ Mark Station	C-184
Geodetic Azimuth	112 36 34
Grid Azimuth	111 43 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	MANIPORT
Ref Mon # 3	VILLPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160021	6/10/2002	AHTD	CRAIGHEAD	18	100306

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	167,898.7619	
Easting (M)	543,372.1590	
Elevation (M)*	70.478	
Northing (SFT)	550,847.8547	
Easting (SFT)	1,782,713.4917	
Elevation (SFT)*	231.227	

Convergence Angle	0	55	24.5355643
Scale Factor	0.999945581		
Elevation Adjust. Factor	0.9999889398		
Combined Adjust. Factor	0.9999345214		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	10.7001384
Longitude	90	24	46.7493624
Ellipsoid Height (M):	42.531		
Geoid Height (M):	-27.922		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE CITY OF MONETTE, GO WEST ON STATE HIGHWAY 18 7.22 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.20 METERS NORTH OF THE CENTERLINE OF STATE HIGHWAY 18, 6.60 METERS EAST OF THE END OF THE BRIDGE, AND 0.63 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "160020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH MARK TOP OF METAL GUARDRAIL POST	214	3.79	12.4
MK # 2	PUNCH MARK TOP OF METAL GUARDRAIL POST	180	1.30	4.3
MK # 3	PUNCH MARK TOP OF METAL GUARDRAIL POST	63	3.03	9.9

AZ Mark Station	160021A
Geodetic Azimuth	53 39 55
Grid Azimuth	52 44 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	MANIPORT
Ref Mon # 3	VILLPORT

Comments

Elevation based on levels by consultant for Job# 100567

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160021A	6/11/2002	AHTD	CRAIGHEAD	18	100306

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	168,360.1569	
Easting (M)	543,978.7450	
Elevation (M)*	69.094	
Northing (SFT)	552,361.6148	
Easting (SFT)	1,784,703.5992	
Elevation (SFT)*	226.686	

Convergence Angle	0	55	38.7718871
Scale Factor	0.999945895		
Elevation Adjust. Factor	0.9999891570		
Combined Adjust. Factor	0.9999350526		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	25.3511988
Longitude	90	24	22.2840864
Ellipsoid Height (M):	41.142		
Geoid Height (M):	-27.930		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE TOWN OF MONETTE, GO WEST ON STATE HIGHWAY 18 6.81 MILES TO THE STATION ON THE RIGHT. THE STATION IS 14.25 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED " 160021A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	61	4.65	15.3
MK # 2				
MK # 3				

AZ Mark Station	160021
Geodetic Azimuth	233 40 09
Grid Azimuth	232 44 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

Elevation based on levels by consultant for Job# 100567

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160022	6/11/2002	AHTD	CRAIGHEAD	18	100306

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	170,348.3429	
Easting (M)	547,384.6850	
Elevation (M)*	70.899	
Northing (SFT)	558,884.5217	
Easting (SFT)	1,795,877.9207	
Elevation (SFT)*	232.608	

Convergence Angle	0	56	58.5031335
Scale Factor	0.999947296		
Elevation Adjust. Factor	0.9999888738		
Combined Adjust. Factor	0.9999361703		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	28.0430280
Longitude	90	22	5.2650696
Ellipsoid Height (M):	42.903		
Geoid Height (M):	-27.963		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE TOWN OF MONETTE, GO WEST 3.58 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.65 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, 6.32 METERS WEST OF THE END OF THE BRIDGE, 9.50 METERS FROM THE CENTERLINE OF FIELD ENTRANCE, AND 0.77 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160022 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP METAL GUARD RAIL POST	40	1.18	3.9
MK # 2	PUNCH MARK TOP METAL GUARD RAIL POST	5	1.63	5.3
MK # 3	PUNCH MARK TOP METAL GUARD RAIL POST	0	5.44	17.8

AZ Mark Station	160022A
Geodetic Azimuth	359 19 41
Grid Azimuth	358 22 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

Elevation based on levels by consultant for Job# 100567

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160022A	6/11/2002	AHTD	CRAIGHEAD	18	100306

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	171,037.7769	
Easting (M)	547,365.1690	
Elevation (M)*	70.230	
Northing (SFT)	561,146.4397	
Easting (SFT)	1,795,813.8920	
Elevation (SFT)*	230.413	

Convergence Angle	0	56	58.3155387
Scale Factor	0.999947819		
Elevation Adjust. Factor	0.9999889787		
Combined Adjust. Factor	0.9999367983		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	50.4204264
Longitude	90	22	5.5874532
Ellipsoid Height (M):	42.223		
Geoid Height (M):	-27.972		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE CITY OF MONETTE, GO WEST ON STATE HIGHWAY 18 3.11 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.35 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 11.0 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160022A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END CORRUGATED METAL PIPE	169	5.15	16.9
MK # 2				
MK # 3				

AZ Mark Station	160022
Geodetic Azimuth	179 19 41
Grid Azimuth	178 22 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

Elevation based on levels by consultant for Job# 100567

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160023	6/11/2002	MY CORPS OI	CRAIGHEAD	18	100308, 100653

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	173,993.7720	
Easting (M)	550,441.0240	
Elevation (M)*	72.048	
Northing (SFT)	570,844.5670	
Easting (SFT)	1,805,905.2596	
Elevation (SFT)*	236.377	

Convergence Angle	0	58	10.8106111	
Scale Factor	0.999950148			
Elevation Adjust. Factor	0.9999886934			
Combined Adjust. Factor	0.9999388420			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	53	24.6479568	
Longitude	90	20	1.0038804	
Ellipsoid Height (M):	43.987			
Geoid Height (M):	-28.016			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 139 IN THE CITY OF MONETTE, GO EAST 0.50 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.45 METERS FROM THE CENTERLINE OF STATE HIGHWAY 18, 12.38 METERS FROM US ARMY CORPS OF ENG. BM 0-9-7-91, 12.30 METERS FROM THE EAST END OF THE BRIDGE, AND 0.67 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160023 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	US ARMY CORPS OF ENG. BENCH MARK 0-9-7-91	275	12.38	40.6
MK # 2	EAST END OF GUARD RAIL	90	10.88	35.7
MK # 3				

AZ Mark Station	0-9-8-91
Geodetic Azimuth	90 36 29
Grid Azimuth	89 38 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

Elevation based on levels by consultant for Job# 100567

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160024	6/11/2002	AHTD	CRAIGHEAD	18	100303

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	166,205.4999
Easting (M)	532,344.7760
Elevation (M)*	
Northing (SFT)	545,292.5443
Easting (SFT)	1,746,534.4859
Elevation (SFT)*	
Convergence Angle	0 51 8.2861955
Scale Factor	0.999944559
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 49 21.3098268
Longitude	90 32 7.1166984
Ellipsoid Height (M):	44.249
Geoid Height (M):	-27.832

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 158 , GO WEST ON HIGHWAY 18 2.9 MILES TO THE STATION ON THE RIGHT. THE STATION IS 20.25 METERS FROM THE CENTERLINE OF A GRAVEL DRIVE, 19.3 METERS FROM THE CENTERLINE OF HIGHWAY 18 , 13.55 METERS FROM THE CENTERLINE OF CRAIGHEAD COUNTY ROAD 945, AND O.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "160024 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CORRUGATED METAL PIPE	245	10.40	34.1
MK # 2	WEST END CORRUGATED METAL PIPE	115	8.60	28.2
MK # 3				

AZ Mark Station	160024A
Geodetic Azimuth	264 45 21
Grid Azimuth	263 54 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160024A	6/11/2002	AHTD	CRAIGHEAD	18	100303

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,146.4240	
Easting (M)	531,791.6660	
Elevation (M)*		
Northing (SFT)	545,098.7261	
Easting (SFT)	1,744,719.8242	
Elevation (SFT)*		

Convergence Angle	0	50	55.4444663
Scale Factor	0.999944526		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	49	19.6595904
Longitude	90	32	29.1853500
Ellipsoid Height (M):	43.987		
Geoid Height (M):	-27.826		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 158, GO WEST ON HIGHWAY 18 3.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.40 METERS FROM THE CENTERLINE OF HIGHWAY 18, 21.65 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED " 160024A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END CORRUGATED METAL PIPE	335	4.65	15.3
MK # 2	TELEPHONE JUNCTION BOX	240	19.30	63.3
MK # 3				

AZ Mark Station	160024
Geodetic Azimuth	84 45 08
Grid Azimuth	83 54 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160025	12/17/2002	AHTD	CRAIGHEAD	349	100569

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	168,658.1670
Easting (M)	508,264.8420
Elevation (M)*	
Northing (SFT)	553,339.3362
Easting (SFT)	1,667,532.2358
Elevation (SFT)*	
Convergence Angle	0 41 50.7695016
Scale Factor	0.999946467
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 50 51.4508172
Longitude	90 48 5.2152192
Ellipsoid Height (M):	57.222
Geoid Height (M):	-27.683

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 349, GO SOUTH ON STATE HIGHWAY 349 FOR 0.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.0 METERS EAST OF THE CENTER OF STATE HIGHWAY 349 AND 0.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "160025 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	250	24.60	80.7
MK # 2	TELEPHONE JUNCTION BOX	1	29.40	96.5
MK # 3				

AZ Mark Station	160025A
Geodetic Azimuth	183 33 44
Grid Azimuth	182 51 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER, MEM2
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	AHTD HAR 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160025A	12/17/2002	AHTD	CRAIGHEAD	349	100569

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	168,073.6880
Easting (M)	508,235.5930
Elevation (M)*	
Northing (SFT)	551,421.7580
Easting (SFT)	1,667,436.2747
Elevation (SFT)*	
Convergence Angle	0 41 49.9263256
Scale Factor	0.999946050
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 50 32.4991824
Longitude	90 48 6.6642264
Ellipsoid Height (M):	54.565
Geoid Height (M):	-27.678

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 349, GO SOUTH ON STATE HIGHWAY 349 FOR 0.80 MILES TO THE STATION ON THE RIGHT. THE STATION IS 16.5 METERS WEST OF THE CENTER OF STATE HIGHWAY 349 AND 0.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "160025A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	354	12.00	39.4
MK # 2	FENCE POST	185	14.60	47.9
MK # 3	NORTH END OF CORRIGATED METAL PIPE	118	4.00	13.1

AZ Mark Station	160025
Geodetic Azimuth	3 33 43
Grid Azimuth	2 51 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER, MEM2
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	AHTD HAR 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160026	10/19/2004	AHTD	CRAIGHEAD	CR203	100611, 100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	161,464.5549	
Easting (M)	507,111.8250	
Elevation (M)*	76.797	
Northing (SFT)	529,738.2939	
Easting (SFT)	1,663,749.3792	
Elevation (SFT)*	251.959	

Convergence Angle	0	41	22.0251222
Scale Factor	0.999941927		
Elevation Adjust. Factor	0.9999879481		
Combined Adjust. Factor	0.9999298758		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	58.5079068
Longitude	90	48	54.6127488
Ellipsoid Height (M):	49.162		
Geoid Height (M):	-27.634		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 226 SOUTH AND STATE HIGHWAY 49 SOUTH, WEST OF VALLEY VIEW, GO SOUTH ON HIGHWAY 49 1.7 MILES TO COUNTY ROAD 202 AND TURN RIGHT AND GO ACROSS RAILROAD TRACKS TO COUNTY ROAD 203 AND TURN RIGHT AND GO 0.40 MILES TO THE STATION ON THE LEFT, WEST OF THE CENTERLINE OF THE ROAD 10.10 METERS AND EAST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160026 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER WELL	3337	7.49	24.6
MK # 2	POWER POLE	25	7.60	24.9
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2
Ref Mon # 3	BLMM

Comments

3wire levels ran by S5111 from NGS K183 under Job # 100611 Elev was found to be 251.9824. In Dec.2010 Digital Levels were ran by crew S5103 in job 100412 Hydralic Study from M 246.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160027	10/19/2004	AHTD	CRAIGHEAD	49	100611, 100639

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	160,995.6159
Easting (M)	512,615.3030
Elevation (M)*	81.873
Northing (SFT)	528,199.7832
Easting (SFT)	1,681,805.3733
Elevation (SFT)*	268.612

Convergence Angle	0	43	29.4025155
Scale Factor			0.999941638
Elevation Adjust. Factor			0.9999871516
Combined Adjust. Factor			0.9999287904

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	41.0892708
Longitude	90	45	15.7133088
Ellipsoid Height (M):	54.247		
Geoid Height (M):	-27.635		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 63 AND STATE HIGHWAY 49,WEST OF JONESBORO, GO SOUTH ON HIGHWAY 49 3.10 MILES TO THE STATION ON THE RIGHT, NORTH 18.80 METERS OF THE CENTERLINE OF THE HIGHWAY AND 27.30 METERS EAST OF MAPLE VALLEY DRIVE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "160027 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	298	16.20	53.1
MK # 2	COMBINATION POLE	300	19.50	64.0
MK # 3	NORTHEAST CORNER BOX CULVERT	267	13.00	42.7

AZ Mark Station	160011A
Geodetic Azimuth	267 18 07
Grid Azimuth	266 34 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2
Ref Mon # 3	BLMM

Comments

3wire levels ran by S5111 from NGS K183 under Job # 100611. Confirmed Elevation ran with 3wire by crew S5101 from NGS C 76 under Job #100639 on 1-19-07.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160028	5/30/2006	AHTD	Craighead	NA	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	162,562.4949	
Easting (M)	494,402.6970	
Elevation (M)*	73.887	
Northing (SFT)	533,340.4520	
Easting (SFT)	1,622,052.8484	
Elevation (SFT)*	242.411	

Convergence Angle	0	36	27.8190775
Scale Factor	0.999942621		
Elevation Adjust. Factor	0.9999884049		
Combined Adjust. Factor	0.9999310265		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	38.7990060
Longitude	90	57	20.2090464
Ellipsoid Height (M):	46.246		
Geoid Height (M):	-27.646		

Location Description

To reach the station from the junction of highways 226 and 18 in Cash, go west on hwy-226 for 0.95 miles to county road 264 on the left, turn left on cr264 and go 0.05 miles to the station on the left. 28.10 feet south of the center of cr264 and 21.6 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "160028 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	168	6.80	22.3
MK # 2	Guy	165	13.19	43.3
MK # 3	water well	127	20.12	66.0

AZ Mark Station	160028A
Geodetic Azimuth	254 34 38
Grid Azimuth	253 58 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160028A	5/30/2006	AHTD	Craighead	NA	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	162,413.6979
Easting (M)	493,884.8180
Elevation (M)*	74.215
Northing (SFT)	532,852.2739
Easting (SFT)	1,620,353.7737
Elevation (SFT)*	243.487
Convergence Angle	0 36 15.7815479
Scale Factor	0.999942539
Elevation Adjust. Factor	0.9999883534
Combined Adjust. Factor	0.9999308931

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 47 34.1489436
Longitude	90 57 40.8956724
Ellipsoid Height (M):	46.578
Geoid Height (M):	-27.645

Location Description

To reach the station from the junction of highways 226 and 18 in Cash, go west on hwy-226 for 0.95 miles to county road 264 on the left. Turn left on CR 264 and go 0.45 miles to the station on the left. 27 feet south of the center of CR264 and 11.7 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "160028A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser	343	2.90	9.5
MK # 2				
MK # 3				

AZ Mark Station	160028
Geodetic Azimuth	74 34 26
Grid Azimuth	73 58 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM K-183 and M-246

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160029	6/5/2006	AHTD	Craighead	18	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	161,009.1879	
Easting (M)	495,059.7660	
Elevation (M)*		
Northing (SFT)	528,244.3106	
Easting (SFT)	1,624,208.5823	
Elevation (SFT)*		

Convergence Angle	0	36	42.6613444
Scale Factor			0.999941755
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	46	48.1741140
Longitude	90	56	54.7024488
Ellipsoid Height (M):	47.843		
Geoid Height (M):	-27.633		

Location Description

To reach the station from the junction of highways 226 and 18 in Cash, go south on hwy-18 for 1.2 miles to the station on the right in the southwest corner of the junction of hwy-18 and county road 246. 43.0 feet west of the center of hwy-18, 26.3 feet south of the center of CR 246 and 1.6 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "160029 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	None
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160030	6/8/2006	AHTD	Craighead	226	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	162,741.3590	
Easting (M)	488,863.1250	
Elevation (M)*	74.750	
Northing (SFT)	533,927.2753	
Easting (SFT)	1,603,878.4359	
Elevation (SFT)*	245.244	

Convergence Angle	0	34	19.4875342
Scale Factor	0.999942757		
Elevation Adjust. Factor	0.9999882694		
Combined Adjust. Factor	0.9999310270		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	46.4529444
Longitude	91	1	0.7482036
Ellipsoid Height (M):	47.111		
Geoid Height (M):	-27.648		

Location Description

To reach the station from the junction of highways 226 and 18 in Cash, go west on hwy-226 for 4.60 miles to the station on the right. 13.5 feet west of a field entrance, 61.3 feet north of the center of hwy-226 and 7.40 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "160030 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Texas Eastern pipeline marker	266	9.57	31.4
MK # 2				
MK # 3				

AZ Mark Station	160004A
Geodetic Azimuth	339 40 44
Grid Azimuth	339 06 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	Newsport
Ref Mon # 3	K 183, 160010

Comments

3-Wire Levels were ran by s5110 in job 100412 in August 2006 from NGS BM M-246 and K-183

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160031	12/5/2006	AHTD	CRAIGHEAD	NA	100639, 100950

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	160,309.8700	
Easting (M)	516,276.1080	
Elevation (M)*	112.289	
Northing (SFT)	525,949.9652	
Easting (SFT)	1,693,815.8643	
Elevation (SFT)*	368.402	

Convergence Angle	0	44	54.0097984
Scale Factor	0.999941256		
Elevation Adjust. Factor	0.9999823785		
Combined Adjust. Factor	0.9999236355		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	17.3133156
Longitude	90	42	50.3147700
Ellipsoid Height (M):	84.663		
Geoid Height (M):	-27.647		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49S BRIDGE OVER STATE HIGHWAY 63 BYPASS, ON THE SOUTHWEST SIDE OF JONESBORO, GO SOUTH ON HIGHWAY 49 FOR 0.1 MILE TO PARKER ROAD AND TURN LEFT ON PARKER ROAD AND GO 0.40 MILES TO HIGHWAY 141 (CLUBERHOUSE RD.) AND TURN RIGHT ON HIGHWAY 141 AND GO 2.30 MILES TO THE STATION MARK ON THE LEFT, 29.4 FEET EAST OF THE CENTERLINE OF THE ROAD AND 1.50 FEET WEST OF A WITNESS POST ON TOP OF A HIGH DITCH BANK. THE STATION MARK IS A STANDARD 21/2 INCH CAP STAMPED "160031 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN 1.0 FOOT BELOW GROUND LEVEL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	295	26.97	88.5
MK # 2				
MK # 3				

AZ Mark Station	160031A
Geodetic Azimuth	126 54 40
Grid Azimuth	126 09 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 183, 160027
Ref Mon # 2	ARBT, ARPG, MANIPORT
Ref Mon # 3	160011A,160017, 160071A

Comments

3wire levels ran by S5101 from NGS C 76 under Job #100639 on 1-19-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160031A	12/5/2006	AHTD	CRAIGHEAD	NA	100639

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	159,938.0860
Easting (M)	516,784.7810
Elevation (M)*	107.624
Northing (SFT)	524,730.2038
Easting (SFT)	1,695,484.7357
Elevation (SFT)*	353.095
Convergence Angle	0 45 5.6809453
Scale Factor	0.999941064
Elevation Adjust. Factor	0.9999831106
Combined Adjust. Factor	0.9999241756

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 46 5.0348280
Longitude	90 42 30.2577768
Ellipsoid Height (M):	80.018
Geoid Height (M):	-27.648

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49S BRIDGE OVER STATE HIGHWAY 63 BYPASS, ON THE SOUTHWEST SIDE OF JONESBORO, GO SOUTH ON HIGHWAY 49 FOR 0.1 MILE TO PARKER ROAD AND TURN LEFT ON PARKER ROAD AND GO 0.40 MILES TO HIGHWAY 141 (CLUBERHOUSE RD.) AND TURN RIGHT ON HIGHWAY 141 AND GO 2.50 MILES TO A FOUR WAY STOP AND TURN LEFT ON EAST LAWSON RD. AND GO 0.20 MILES TO TIMBERLAND DR. AND TURN LEFT ON TIMBERLAND DR. AND GO 0.20 MILES TO THE STATION MARK ON THE RIGHT, 16 80 FEET SOUTHEAST OF THE CENTERLINE OF THE STREET AND 1.50 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 21/2 INCH CAP STAMPED "160031A 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN 0.80 FOOT BELOW GROUND LEVEL AND AT THE BASE OF A CONCRETE STREET LIGHT FOUNDATION.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE LAMP POST	135	0.70	2.3
MK # 2	TELEPHONE PEDASTAL	133	3.66	12.0
MK # 3	TRANSFORMER	339	12.13	39.8

AZ Mark Station	160031
Geodetic Azimuth	306 54 51
Grid Azimuth	306 09 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 183, 160027
Ref Mon # 2	ARBT, ARPG, MANIPORT
Ref Mon # 3	160011A,160017, 160071A

Comments

3wire levels ran by S5101 from NGS C 76 under Job #100639 on 1-19-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160032	10/13/2010	AHTD	Craighead	91	100727

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	168,667.2529	
Easting (M)	515,113.4900	
Elevation (M)*	88.249	
Northing (SFT)	553,369.1456	
Easting (SFT)	1,690,001.5084	
Elevation (SFT)*	289.531	

Convergence Angle	0	44	29.5819875
Scale Factor	0.999946412		
Elevation Adjust. Factor	0.9999861510		
Combined Adjust. Factor	0.9999325638		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	48.9551712
Longitude	90	43	32.2942296
Ellipsoid Height (M):	60.546		
Geoid Height (M):	-27.697		

Location Description

To reach the station from the junction of highways 91(Johnson St.) and 141 (Main St.) on the north side of Jonesboro go west on hwy-91 for 1.20 miles to Gee street on the left and the station on the right. 63.0 feet north of the center of hwy-91, 100.0 feet south of the south rail of the tracks and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "180017A 2010" set on top of a 5/8 inch by 1.50 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Compination pole	283	17.68	58.0
MK # 2	center of a manhole lid	104	20.73	68.0
MK # 3	Center of a manhole lid	245	5.33	17.5

AZ Mark Station	160032A
Geodetic Azimuth	178 26 34
Grid Azimuth	177 42 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARBT
Ref Mon # 3	Maniport, H315

Comments

Digital levels were ran by crew S5103 from NGS marks F 315 to K 3 during Job 100727 in Oct. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160032A	10/13/2010	AHTD	Craighead	NA	100727

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	168,116.5349	
Easting (M)	515,135.5980	
Elevation (M)*	90.423	
Northing (SFT)	551,562.3316	
Easting (SFT)	1,690,074.0411	
Elevation (SFT)*	296.661	

Convergence Angle	0	44	29.9293261
Scale Factor	0.999946019		
Elevation Adjust. Factor	0.9999858100		
Combined Adjust. Factor	0.9999318297		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	31.0782336
Longitude	90	43	31.6973244
Ellipsoid Height (M):	62.722		
Geoid Height (M):	-27.693		

Location Description

To reach the station from the junction of highways 91(Johnson St.) and 141 (Main St.) on the north side of Jonesboro go west on hwy-91 for 1.20 miles to Gee street on the left. Turn left (south) on Gee street and go 0.30 miles to the station on the left in the "Family Dollar" parking lot. 41.0 feet east of the center of Gee st., 86.0 feet south of the north driveway, 26.0 feet north of the south driveway and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "180017A 2010" set on top of a 5/8 inch by 1.50 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Sign post	12	10.70	35.1
MK # 2	Combination pole	183	14.33	47.0
MK # 3	Southwest corner of a building	100	28.04	92.0

AZ Mark Station	160032
Geodetic Azimuth	358 26 34
Grid Azimuth	357 42 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARBT
Ref Mon # 3	Maniport, H 315

Comments

Digital levels were ran by crew S5103 from NGS marks F 315 to K 3 during Job 100727 in Oct. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160033	12/3/2010	AHTD	Craighead	18	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	163,927.2549	
Easting (M)	496,772.6990	
Elevation (M)*	76.405	
Northing (SFT)	537,818.0021	
Easting (SFT)	1,629,828.4300	
Elevation (SFT)*	250.673	

Convergence Angle	0	37	23.0844582
Scale Factor	0.999943412		
Elevation Adjust. Factor	0.9999880097		
Combined Adjust. Factor	0.9999314224		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	22.2533388
Longitude	90	55	45.2348868
Ellipsoid Height (M):	48.742		
Geoid Height (M):	-27.660		

Location Description

To reach the station from the intersection of highway 226 and highway 18 in Cash, go north on highway 18 for 0.9 miles to the station on the left, in the northwest quadrant of the intersection of highway 18 and CR157, 38 feet north of the centerline of highway 18, 81 feet west of the centerline of CR157, 1.5 feet south of the witness post. The station mark is a standard 2 1/2 inch aluminum cap stamped "160033 2010" set on top of a 3/4 inch rebar 4 feet long and driven 0.2 feet below the ground level.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	light pole	130	19.81	65.0
MK # 2	west end of 24" CMP	73	18.29	60.0
MK # 3	60" red oak	26	27.74	91.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	TN42
Ref Mon # 3	MSB6

Comments

Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160034	12/3/2010	AHTD	Craighead	18	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	165,792.7290	
Easting (M)	499,315.5280	
Elevation (M)*	76.261	
Northing (SFT)	543,938.3117	
Easting (SFT)	1,638,171.0281	
Elevation (SFT)*	250.199	

Convergence Angle	0	38	22.5022559
Scale Factor	0.999944570		
Elevation Adjust. Factor	0.9999880323		
Combined Adjust. Factor	0.9999326030		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	21.8700264
Longitude	90	54	3.1247532
Ellipsoid Height (M):	48.572		
Geoid Height (M):	-27.677		

Location Description

To reach the station from the intersection of highway 226 and highway 18 in Cash, go north on highway 18 for 3.2 miles to the station on the right, in the south east quadrant of the intersection of highway 18 and CR160, 1.5 feet west of the witness post, 50 feet east of the centerline of highway 18, 36 feet south of the centerline of CR160. The station mark is a standard 2 1/2 inch aluminum cap stamped "160034 2010" set on top of a 3/4 inch rebar 4 feet long and driven 0.2 feet below ground level.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Middle of headwall on south end of box culvert	313	11.58	38.0
MK # 2	power pole with guy wire	17	17.68	58.0
MK # 3	power pole	196	10.36	34.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	TN42
Ref Mon # 3	MSB6

Comments

Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160035	12/3/2010	AHTD	Craighead	18	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	168,216.7089	
Easting (M)	499,327.2040	
Elevation (M)*	75.385	
Northing (SFT)	551,890.9858	
Easting (SFT)	1,638,209.3351	
Elevation (SFT)*	247.326	

Convergence Angle	0	38	23.4004612
Scale Factor	0.999946226		
Elevation Adjust. Factor	0.9999881698		
Combined Adjust. Factor	0.9999343964		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	40.5119868
Longitude	90	54	1.5811776
Ellipsoid Height (M):	47.668		
Geoid Height (M):	-27.696		

Location Description

To reach the station from the intersection of highway 18 and highway 91, the station is in the south east quadrant of the intersection, 1.5 feet west of the witness post, 55 feet east of the centerline of highway 18, 47 feet south of the centerline of highway 91, 18 feet west of the center of a gravel field entrance. The station mark is a standard 2 1/2 inch aluminum cap stamped "160035 2010" set on top of a 3/4 inch rebar 4 feet long and driven 0.2 feet below ground level.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	south end of box CU on east side of Hwy 18	288	12.04	39.5
MK # 2	west end of 36" CMP	0	5.49	18.0
MK # 3	telephone box	70	15.55	51.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	TN42
Ref Mon # 3	MSB6

Comments

Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160036	12/3/2010	AHTD	Craighead	91	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	168,213.0370	
Easting (M)	503,194.3170	
Elevation (M)*	78.517	
Northing (SFT)	551,878.9389	
Easting (SFT)	1,650,896.6884	
Elevation (SFT)*	257.600	

Convergence Angle	0	39	53.0700284
Scale Factor	0.999946192		
Elevation Adjust. Factor	0.9999876783		
Combined Adjust. Factor	0.9999338710		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	38.9643900
Longitude	90	51	27.4830480
Ellipsoid Height (M):	50.807		
Geoid Height (M):	-27.691		

Location Description

To reach the station from the intersection of highway 18 and highway 91, go east on highway 91 for 2.5 miles to the station on the left, 125 feet north of the centerline of highway 91, 1.8 feet north of the witness post. The station mark is the center of the top of a 1/2 inch bolt sticking up 1 inch out of a 9.6 foot by 12 foot concrete slab, on the south west corner of the slab.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	well head north of ststion mark	10	8.41	27.6
MK # 2	well head west of station mark	240	28.35	93.0
MK # 3	combination pole with transformer	209	32.92	108.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	TN42
Ref Mon # 3	MSB6

Comments

Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160037	12/3/2010	AHTD	Craighead	CR155	100412

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	165,646.9879	
Easting (M)	503,299.5780	
Elevation (M)*	77.784	
Northing (SFT)	543,460.1595	
Easting (SFT)	1,651,242.0322	
Elevation (SFT)*	255.195	

Convergence Angle	0	39	54.8199399
Scale Factor	0.999944446		
Elevation Adjust. Factor	0.9999877933		
Combined Adjust. Factor	0.9999322400		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	15.6695160
Longitude	90	51	24.4758060
Ellipsoid Height (M):	50.096		
Geoid Height (M):	-27.672		

Location Description

To reach the station from the intersection of highway 91 and CR155, go south on CR155 for 1.6 miles to the station on the right, 36 feet west of the centerline of CR155, 2 feet east of the witness post. The station mark is a standard 2 1/2 inch aluminum cap stamped "160037 2010" and set on top of a 3/4 inch rebar 4 feet long and driven 0.2 feet below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	USGS observation water well	254	0.91	3.0
MK # 2	power pole	75	24.69	81.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	TN42
Ref Mon # 3	MSB6

Comments

Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160038	12/3/2010	AHTD	Craighead	CR 106	100412, br1611

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	165,527.4750	
Easting (M)	507,042.1370	
Elevation (M)*	108.848	
Northing (SFT)	543,068.0576	
Easting (SFT)	1,663,520.7445	
Elevation (SFT)*	357.112	

Convergence Angle	0	41	21.5430646
Scale Factor	0.999944340		
Elevation Adjust. Factor	0.9999829185		
Combined Adjust. Factor	0.9999272594		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	10.3565136
Longitude	90	48	55.4411700
Ellipsoid Height (M):	81.175		
Geoid Height (M):	-27.662		

Location Description

To reach the station from the intersection of highway 91 and CR155, go south on CR155 for 1.5 miles to CR160. Go east (left) on CR160 for 2.3 miles to CR106. Go south east (right) on CR106 for 0.1 miles to the station on the right, 28 feet north east of the centerline of CR106, 25 feet east of the centerline of CR107 and 1.5 feet north of the witness post. The station mark is a standard 2 1/2 inch aluminum cap stamped "160038 2010" and set on top of a 3/4 inch rebar 4 feet long driven 0.2 feet below ground level

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	telephone box	314	15.24	50.0
MK # 2	center of gate	11	19.20	63.0
MK # 3	power ole	150	11.89	39.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	TN42
Ref Mon # 3	MSB6

Comments

Digital levels were ran by S5103 in Dec. 10 from NGS marks M 246, K 183, N 183, Sloan & H 315 during the Hydraulic Study for job 100412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160039	7/11/2016	AHTD	Craighead	49	100882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	170,685.2229	0.0020
Easting (M)	523,777.9619	0.0020
Elevation (M)*	90.714	0.0024
Northing (SFT)	559,989.7688	
Easting (SFT)	1,718,428.1967	
Elevation (SFT)*	297.618	

Convergence Angle	0	47	51.1449676
Scale Factor	0.999947824		
Elevation Adjust. Factor	0.9999857642		
Combined Adjust. Factor	0.9999335889		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	51	50.6503296
Longitude	90	37	45.9060492
Ellipsoid Height (M):	62.826		0.0080
Geoid Height (M):	-27.900		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 91, IN JONESBORO, GO EAST 0N HIGHWAY 49 FOR 2.2 MILES TO THE MARK ON THE RIGHT, 49.5 FEET (15.09M) SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "160039 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	95	23.16	76.0
MK # 2	CENTER OF MANHOLE	240	9.20	30.2
MK # 3	CENTER OF DROP INLET	275	14.72	48.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	160039A

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

22 FEET 6.70(M) EAST OF THE CL OF CONCRETE ENTRANCE TO BEAR STATE BANK. Three wire levels done by crew S5113 in July 2016 in job 100882.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160039A	7/11/2016	AHTD	Craighead	49	100882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	170,693.8888	0.0020
Easting (M)	524,210.4832	0.0020
Elevation (M)*	83.817	0.0024
Northing (SFT)	560,018.2002	
Easting (SFT)	1,719,847.2270	
Elevation (SFT)*	274.990	

Convergence Angle	0	48	1.1792069
Scale Factor	0.999947826		
Elevation Adjust. Factor	0.9999868465		
Combined Adjust. Factor	0.9999346732		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	51	50.7358008
Longitude	90	37	28.6620996
Ellipsoid Height (M):	55.928	0.0080	
Geoid Height (M):	-27.904		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 91, IN JONESBORO, GO EAST 0N HIGHWAY 49 FOR 2.4 MILES TO THE MARK ON THE RIGHT, 42.5 FEET (12.95M) SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "160039A 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	170	2.38	7.8
MK # 2	POWER POLE	245	31.70	104.0
MK # 3	FIRE HYDRANT	95	28.71	94.2

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	160039

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

52.5 FEET 16.00(M) WEST OF THE CL OF OLD BRIDGER ROAD. Three wire levels done by crew S5113 in July 2016 in job 100882.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160040	10/5/2016	AHTD	Craighead	18	100835

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	165,369.8818	0.0020
Easting (M)	519,448.3071	0.0020
Elevation (M)*	82.641	
Northing (SFT)	542,551.0205	
Easting (SFT)	1,704,223.3209	
Elevation (SFT)*	271.131	

Convergence Angle	0	46	9.0717834
Scale Factor	0.999944138		
Elevation Adjust. Factor	0.9999870311		
Combined Adjust. Factor	0.9999311698		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	49	0.1200648
Longitude	90	40	41.3199300
Ellipsoid Height (M):	54.821	0.0040	
Geoid Height (M):	-27.822		

Location Description

From the intersection of I-555 and South Caraway Road in Jonesboro, Arkansas. Travel North alond South Caraway Road 0.65 miles to the station on the left which is located 17.5(M) 57.5(f) West of the center line of South Caraway Road and 22.1(M) 72.5(f) South of the center line of Fowler Street.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Fire Hydrant	325	15.54	51.0
MK # 2	Center of Catch Baasin	170	25.91	85.0
MK # 3	Ceter of Catch Basin	5	32.31	106.0

AZ Mark Station	160040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

Elevation by three-wire from NGS BM H-332, checking into NGS BM G332. Three wire performed by crew S5101 in October, 2016 during job 100835.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160040A	10/5/2016	AHTD	Craighead	18	100835,100979

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	166,233.9949	0.0020
Easting (M)	519,454.2550	0.0020
Elevation (M)*	86.140	
Northing (SFT)	545,386.0316	
Easting (SFT)	1,704,242.8349	
Elevation (SFT)*	282.610	

Convergence Angle	0	46	9.4786028
Scale Factor	0.999944697		
Elevation Adjust. Factor	0.9999864820		
Combined Adjust. Factor	0.9999311798		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	49	28.1529912	
Longitude	90	40	40.6208064	
Ellipsoid Height (M):	58.312			0.0040
Geoid Height (M):	-27.828			

Location Description

From the intersection of I-555 and South Caraway Road in Jonesboro, Arkansas. Travel North alond South Caraway Road 1.20 miles to the station on the left which is located 13.7(M) 45.0(f) West of the center line of South Caraway Road and 19.8(M) 72.5(f) South of the center line of Wilkins Avanue.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Fire Hydrant	322	5.33	17.5
MK # 2	Signal Pole With Arm	34	6.10	20.0
MK # 3	Light Pole	233	24.20	79.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

Elevation by three-wire from NGS BM H-332, checking into NGS BM G332. Three wire performed by crew S5101 in October, 2016 during job 100835.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160041	7/18/2017	AHTD	CRAIGHEAD	MERCE	100657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	166,939.8225	0.0020
Easting (M)	524,334.2181	0.0020
Elevation (M)*	73.118	
Northing (SFT)	547,701.7343	
Easting (SFT)	1,720,253.1805	
Elevation (SFT)*	239.889	

Convergence Angle	0	48	2.8320122
Scale Factor			0.999945123
Elevation Adjust. Factor			0.9999885255
Combined Adjust. Factor			0.9999336491

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 12B		
Latitude	35	49	48.8834760
Longitude	90	37	25.8217356
Ellipsoid Height (M):	45.240		
Geoid Height (M):	-27.879		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 18 (HIGHLAND RD) AND STATE HIGHWAY 18s (COMMERCE DR), SOUTHEAST OF JONESBORO, GO NORTH ON COMMERCE DRIVE 0.6 MILES TO THE MARK ON THE LEFT, WEST 16.6' OF THE C/L OF COMMERCE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160041 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	142	15.73	51.6
MK # 2	NORTH END OF 24" RCP	42	20.73	68.0
MK # 3	SAN SWR MANHOLE	60	20.03	65.7

AZ Mark Station	160041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160041A	7/18/2017	AHTD	CRAIGHEAD	MERCE	100657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	167,314.7152	0.0020
Easting (M)	524,344.9648	0.0020
Elevation (M)*	73.767	

Northing (SFT)	548,931.6948	
Easting (SFT)	1,720,288.4387	
Elevation (SFT)*	242.016	

Convergence Angle	0	48	3.2026475
Scale Factor			0.999945377
Elevation Adjust. Factor			0.9999884238
Combined Adjust. Factor			0.9999338014

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 12B		
Latitude	35	50	1.0415940
Longitude	90	37	25.1847948
Ellipsoid Height (M):	45.885		
Geoid Height (M):	-27.881		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 18 (HIGHLAND RD) AND STATE HIGHWAY 18s (COMMERCE DR), SOUTHEAST OF JONESBORO, GO NORTH ON COMMERCE DRIVE 0.85 MILES TO THE MARK ON THE RIGHT, EAST 18" OF THE C/L OF COMMERCE DRIVE AND 41' SOUTH OF A ASPHALT DRIVE WAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160041A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	174	9.45	31.0
MK # 2	WATER METER	23	8.84	29.0
MK # 3	LIGHT POLE	72	26.00	85.3

AZ Mark Station	160041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160042	7/18/2017	AHTD	CRAIGHEAD	49	100657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	170,699.8985	0.0020
Easting (M)	524,781.0890	0.0020
Elevation (M)*	79.401	
Northing (SFT)	560,037.9170	
Easting (SFT)	1,721,719.2895	
Elevation (SFT)*	260.502	

Convergence Angle	0	48	14.4151696
Scale Factor	0.999947825		
Elevation Adjust. Factor	0.9999875395		
Combined Adjust. Factor	0.9999353652		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 12B		
Latitude	35	51	50.6715768
Longitude	90	37	5.9159532
Ellipsoid Height (M):	51.491		
Geoid Height (M):	-27.910		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35s AND STATE HIGHWAY 49/1, NORTHEAST OF JONESBORO, GO NORTH ON HIGHWAY 49 1.8 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE EDGE OF THE ASPHALT 16.0', 70.5' WEST OF THE C/L OF AN ASPHALT DRIVE AND 97' EAST OF THE C/L OF A CONCRETE DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160042 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH LIGHT & TRANS FORMER	100	13.41	44.0
MK # 2				
MK # 3				

AZ Mark Station	160042A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160042A	7/18/2017	AHTD	CRAIGHEAD	49	100657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	170,741.7979	0.0020
Easting (M)	525,277.3711	0.0020
Elevation (M)*	79.551	
Northing (SFT)	560,175.3819	
Easting (SFT)	1,723,347.5084	
Elevation (SFT)*	260.992	

Convergence Angle	0	48	25.9390725
Scale Factor	0.999947852		
Elevation Adjust. Factor	0.9999875161		
Combined Adjust. Factor	0.9999353687		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 12B		
Latitude	35	51	51.8045400
Longitude	90	36	46.1120004
Ellipsoid Height (M):	51.635		
Geoid Height (M):	-27.916		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35s AND STATE HIGHWAY 49/1, NORTHEAST OF JONESBORO, GO NORTH ON HIGHWAY 49 2.1 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE EDGE OF THE ASPHALT 12.5', 29' EAST OF THE C/L OF AN ASPHALT DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "160042A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDERGROUND CABLE MARKER	154	16.45	54.0
MK # 2				
MK # 3				

AZ Mark Station	160042
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

NEW ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM'S L 332 & M 332 BY S5112 IN JULY/AUG. 2017 FOR JOB #100657. ELEVATION FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160043	2/4/2020	ARDOT S5113	CRAIGHEAD	I-555	100959

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,254.4826	0.0009
Easting (M)	517,629.4505	0.0009
Elevation (M)*		

Northing (SFT)	538,891.5817	
Easting (SFT)	1,698,255.9555	
Elevation (SFT)*		

Convergence Angle	0	45	26.5698959
Scale Factor	0.999943459		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	48	24.7178196	
Longitude	90	41	54.3598872	
Ellipsoid Height (M):	63.688			0.0057
Geoid Height (M):	-27.801			0.0057

Location Description

INTERSECTION OF I 555 & HARRISBURG RD SE END OF OVERPASS BEHIND CONCRETE BARRIER

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SE OF BRIDGE BARRIER	122	1.20	3.9
MK # 2	SW OF I DRIVE CAMERA POLE	271	17.10	56.1
MK # 3				

AZ Mark Station	160043A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC

Comments

ELEVATION (300.1602 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160043A	2/4/2020	ARDOT S5113	CRAIGHEAD	I-555	100959

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,342.1717	0.0009
Easting (M)	517,947.1249	0.0009
Elevation (M)*		

Northing (SFT)	539,179.2750	
Easting (SFT)	1,699,298.1923	
Elevation (SFT)*		

Convergence Angle	0	45	33.9594476
Scale Factor	0.999943510		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	Level - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	48	27.4264092	
Longitude	90	41	41.6608620	
Ellipsoid Height (M):	59.012			0.0056
Geoid Height (M):	-27.804			0.0056

Location Description

INTERSECTION OF I555 AND HIGDON RD OVERPASS GO NW .2 MILEST TO WINDOVER RD GO WEST .5 MILES TO BROWNS LANE ACCESS RD GO SE .2 MILES TO STATION ON THE RIGHT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	4' TO SHOULDER OF ACCESS ROAD	220	1.20	3.9
MK # 2	100'FROM LIGHT POLE	69	30.50	100.1
MK # 3	41' FROM END OF 24" RCP	325	12.50	41.0

AZ Mark Station	160043
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC

Comments

ELEVATION (284.8288 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160044	2/4/2020	ARDOT S5113	CRAIGHEAD	I-555	100959

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,397.4467	0.0008
Easting (M)	520,278.0648	0.0009
Elevation (M)*		
Northing (SFT)	539,360.6230	
Easting (SFT)	1,706,945.6176	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:	Geoid12B			
Latitude	35	48	28.2074112	
Longitude	90	40	8.7909816	
Ellipsoid Height (M):	56.592			0.0018
Geoid Height (M):	-27.824			0.0018

Convergence Angle	0	46	28.0003501
Scale Factor	0.999943524		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

INTERSECTON OF I555 AND STADIUM BLVD NORTH OF I555 OVERPASS EAST OF STADIUM BLVD GUARDRAIL END OF BRIDGE

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	10' OF GUARDRAIL	12	3.00	9.8
MK # 2	7, OF STADIUM BLVD SHOULDER	90	2.10	6.9
MK # 3				

AZ Mark Station	160044A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC

Comments

ELEVATION (276.9548 US SURVEY FEET) BASED ON STATIC GPS DERIVED ELEVATION CONSTRAINING ARDOT GPS #160044A WHOSE ELEVATION IS BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160044A	2/4/2020	ARDOT S5113	CRAIGHEAD	I-555	100959

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,211.1056	0.0008
Easting (M)	520,380.6691	0.0009
Elevation (M)*	78.652	
Northing (SFT)	538,749.2690	
Easting (SFT)	1,707,282.2452	
Elevation (SFT)*	258.044	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:	Geoid12B			
Latitude	35	48	22.1166828	
Longitude	90	40	4.8047016	
Ellipsoid Height (M):	50.828			0.0000
Geoid Height (M):	-27.824			

Convergence Angle	0	46	30.3199629
Scale Factor	0.999943410		
Elevation Adjust. Factor	0.9999876571		
Combined Adjust. Factor	0.9999310678		

Location Description

FROM I555 AND STADIUM BLVD OVERPASS GO SOUTH .1 MILES TO ON RAMP GO EAST .1 TO STATION ON THE LEFT

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	26' E OF SEWER MANHOLE	122	7.90	25.9
MK # 2	38' END OF 24" RCP	325	11.60	38.1
MK # 3				

AZ Mark Station	160044
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5113 IN FEBRUARY 2020 FOR JOB #100959 FROM 1ST ORDER NGS PUBLISHED BM K 330 .

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160045	9/29/2022	ARDOT	CRAIGHEAD	HWY 91	101066

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	168,964.6158	0.0010
Easting (M)	506,594.7649	0.0010
Elevation (M)*	95.268	
Northing (SFT)	554,344.7437	
Easting (SFT)	1,662,052.9912	
Elevation (SFT)*	312.558	

Convergence Angle	0	41	12.1276633
Scale Factor	0.999946704		
Elevation Adjust. Factor	0.9999850496		
Combined Adjust. Factor	0.9999317544		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	51	2.0479536	
Longitude	90	49	11.6216400	
Ellipsoid Height (M):	67.432			0.0030
Geoid Height (M):	-27.809			0.0030

Location Description

TO REACH FROM THE JCT. OF HWY 349 AND HWY 91 NEAR WESTSIDE SCHOOLS IN JONESBORO, HEAD WEST ON HWY 91 FOR 1.2MILES TO COUNTY ROAD 133. TURN RIGHT/NORTH ON COUNTY ROAD 133 AND THE STATION WILL BE ON THE RIGHT. THE STATION IS 18.0FT E OF COUNTY ROAD 133, AND 57.8FT N OF THE CL OF HWY 91. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "160045 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAILBOX	333	13.60	44.6
MK # 2	POWERPOLE	68	18.10	59.4
MK # 3				

AZ Mark Station	160045A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARPG, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160045A	9/29/2022	ARDOT	CRAIGHEAD	HWY 91	101066

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	169,334.2393	0.0010
Easting (M)	506,603.3983	0.0010
Elevation (M)*	95.309	
Northing (SFT)	555,557.4168	
Easting (SFT)	1,662,081.3159	
Elevation (SFT)*	312.694	

Convergence Angle	0	41	12.4306144
Scale Factor	0.999946975		
Elevation Adjust. Factor	0.9999850431		
Combined Adjust. Factor	0.9999320189		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	51	14.0368860
Longitude	90	49	11.1010152
Ellipsoid Height (M):	67.480	0.0030	
Geoid Height (M):	-27.811	0.0030	

Location Description

TO REACH FROM THE JCT. OF HWY 349 AND HWY 91 NEAR WESTSIDE SCHOOLS IN JONESBORO, HEAD WEST ON HWY 91 FOR 1.2 MILES TO COUNTY ROAD 133. TURN RIGHT/NORTH ON COUNTY ROAD 133 FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.9FT EAST OF COUNTY ROAD 133, AND 79.3FT SOUTH OF COUNTY ROAD 132. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "160045A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	128	20.60	67.6
MK # 2				
MK # 3				

AZ Mark Station	160045
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARPG, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160046	1/18/2023	ARDOT	CRAIGHEAD	49	101073

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	167,502.9571	
Easting (M)	520,332.9763	
Elevation (M)*	88.488	

Northing (SFT)	549,549.2851	
Easting (SFT)	1,707,125.7731	
Elevation (SFT)*	290.316	

Convergence Angle	0	46	30.2467337
Scale Factor	0.999945544		
Elevation Adjust. Factor	0.9999861135		
Combined Adjust. Factor	0.9999316582		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	50	8.9391660
Longitude	90	40	4.9305468
Ellipsoid Height (M):	60.632		
Geoid Height (M):	-27.837		

Location Description

TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 1.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.3FT WEST OF THE BACK OF THE ASPHAULT CURB OF HWY 49, AND 26.5FT SW OF THE END OF THE GUARDRAIL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160046 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	160046A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWM

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160046A	1/18/2023	ARDOT	CRAIGHEAD	49	101073

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	167,907.5862	0.0010
Easting (M)	520,355.8712	0.0010
Elevation (M)*	82.643	
Northing (SFT)	550,876.8057	
Easting (SFT)	1,707,200.8874	
Elevation (SFT)*	271.139	

Convergence Angle	0	46	30.9044936	
Scale Factor			0.999945824	
Elevation Adjust. Factor			0.9999870307	
Combined Adjust. Factor			0.9999328554	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	50	22.0569396	
Longitude	90	40	3.8001792	
Ellipsoid Height (M):			54.784	0.0040
Geoid Height (M):			-27.840	0.0040

Location Description

TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.1FT E OF THE EP OF HWY 49, 15.0FT N OF A RW MARKER, AND 67.0FT SE OF CENTER OF A HEADWALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160046A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RW MARKER	4	4.60	15.1
MK # 2	POWERPOLE	33	17.90	58.7
MK # 3				

AZ Mark Station	160046
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWM

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160047	1/18/2023	ARDOT	CRAIGHEAD	RPORT F	101073

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	168,069.6942	0.0010
Easting (M)	521,928.3550	0.0010
Elevation (M)*	99.303	

Northing (SFT)	551,408.6551	
Easting (SFT)	1,712,359.9447	
Elevation (SFT)*	325.798	

Convergence Angle	0	47	7.4154451
Scale Factor	0.999945923		
Elevation Adjust. Factor	0.9999844163		
Combined Adjust. Factor	0.9999303401		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	50	26.6215128
Longitude	90	39	1.0557108
Ellipsoid Height (M):	71.429	0.0040	
Geoid Height (M):	-27.855	0.0040	

Location Description

TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 0.5 MILES TO E NETTLETON AVE. HEAD RIGHT/EAST ON E NETTLETON AVE FOR 0.3 MILES TO AIRPORT ROAD. HEAD NORTH/LEFT ON AIRPORT ROAD FOR 1.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.0FT WEST OF THE EP OF AIRPORT RD, 105FT N OF THE SOUTH ENTRANCE OF NETTLETON CEMETARY, AND 99FT S OF THE NORTH ENTRANCE OF NETTLETON CEMETARY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160047 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AT&T UTILITY BOX	306	16.50	54.1
MK # 2				
MK # 3				

AZ Mark Station	160047A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWM

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160047A	1/18/2023	ARDOT	CRAIGHEAD	RPORT F	101073

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	167,676.6884	0.0010
Easting (M)	521,924.9795	0.0010
Elevation (M)*	85.482	
Northing (SFT)	550,119.2685	
Easting (SFT)	1,712,348.8702	
Elevation (SFT)*	280.453	

Convergence Angle	0	47	7.2122710
Scale Factor	0.999945649		
Elevation Adjust. Factor	0.9999865852		
Combined Adjust. Factor	0.9999322350		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	50	13.8723360
Longitude	90	39	1.4048676
Ellipsoid Height (M):	57.617		0.0040
Geoid Height (M):	-27.852		0.0040

Location Description

TO REACH FROM THE JCT. OF HWY 49 AND HWY 18 IN JONESBORO, HEAD NORTH ON HWY 49 FOR 0.5 MILES TO E NETTLETON AVE. HEAD RIGHT/EAST ON E NETTLETON AVE FOR 0.3 MILES TO AIRPORT ROAD. HEAD NORTH/LEFT ON AIRPORT ROAD FOR 0.95 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.6FT W OF THE EP OF AIRPORT ROAD. THE STATION MARK IS A 2 1/2IN CAP STAMPED "160047A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CULVERT	3	20.80	68.2
MK # 2	UTILITY MARKER	7	19.90	65.3
MK # 3	COMBINATION POLE	278	16.60	54.5

AZ Mark Station	160047
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWM

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM B 315 BY S5103 IN JANUARY 2023 FOR JOB #101073. ALSO CHECKED INTO NGS PUBLISHED 2ND ORDER BM C 315 BUT IT DID NOT CHECK WITH B 315 AND STATIC DERIVED ELEVATIONS MATCHED CLOSER TO B 315.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160048	3/6/2024	ARDOT	Craighead	158	10X561

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	159,413.8017	0.0020
Easting (M)	550,444.1668	0.0010
Elevation (M)*	68.168	0.0000
Northing (SFT)	523,010.1144	
Easting (SFT)	1,805,915.5706	
Elevation (SFT)*	223.648	

Convergence Angle	0	58	5.1677658
Scale Factor	0.999940559		
Elevation Adjust. Factor	0.9999893023		
Combined Adjust. Factor	0.9999298620		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	45	31.6353312
Longitude	90	20	10.7011716
Ellipsoid Height (M):	40.253		0.0120
Geoid Height (M):	-27.915		

Location Description

From the intersection of Arkansas State Highway 18 and Arkansas State Highway 139 near Black Oak, Craighead County Arkansas, travel South along State Highway 139 for 7.0 miles to the intersection of Arkansas State Highway 158 (West State Street) on the left then continue along Arkansas State Highway 158 (West State Street) to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 160048 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 53 feet (16.15 Meters) North of the centerline of Arkansas State Highway 158 (West State Street) and 2 feet (.60 Meters) South of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fire Hydrant	276	9.14	30.0
MK # 2	Telephone Box	95	33.95	111.4
MK # 3				

AZ Mark Station	160048A
Geodetic Azimuth	268 39 32.4
Grid Azimuth	267 41 33.1

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM

Comments

ELEV WAS EST BY STATIC OBS HOLDING NGS BM W 314. BY CREW S5101 DURING JOB 10X561 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160048A	3/6/2024	ARDOT	Craighead	139	10X561

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	159,393.4844	0.0020
Easting (M)	549,939.9532	0.0010
Elevation (M)*	68.590	0.0000
Northing (SFT)	522,943.4567	
Easting (SFT)	1,804,261.3298	
Elevation (SFT)*	225.031	

Convergence Angle	0	57	53.4815110
Scale Factor	0.999940554		
Elevation Adjust. Factor	0.9999892362		
Combined Adjust. Factor	0.9999297908		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	45	31.2521364	
Longitude	90	20	30.7841280	
Ellipsoid Height (M):	40.670			0.0120
Geoid Height (M):	-27.917			

Location Description

From the intersection of Arkansas State Highway 18 and Arkansas State Highway 139 near Black Oak, Craighead County Arkansas, travel South along State Highway 139 for 6.9 miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 160048A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 37 feet (11.28 Meters) South of the centerline of Arkansas State Highway 139 and 2 feet (.60 Meters) North of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	100	5.49	18.0
MK # 2	Fire Hydrant			
MK # 3				

AZ Mark Station	160048
Geodetic Azimuth	88 39 32.4
Grid Azimuth	87 41 33.1

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM

Comments

ELEV WAS EST BY HOLDING STATIC DERIVED ELEV AT GPS 160048 AND RUNNING DIGITAL LEVELS TO 160048A. BY CREW S5101 DURING JOB 10X561 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160049	11/25/2024	ARDOT	CRAIGHEAD	1	101193

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	160,649.5506	0.0010
Easting (M)	519,838.8096	0.0010
Elevation (M)*	84.186	
Northing (SFT)	527,064.4006	
Easting (SFT)	1,705,504.4945	
Elevation (SFT)*	276.201	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	46	26.8011840	
Longitude	90	40	28.2959760	
Ellipsoid Height (M):	56.368			0.0030
Geoid Height (M):	-27.795			

Convergence Angle	0	46	16.6504108
Scale Factor	0.999941407		
Elevation Adjust. Factor	0.9999867886		
Combined Adjust. Factor	0.9999281964		

Location Description

From the Intersection of Interstate Hwy 555 and Arkansas Highway 1 South located in Jonesboro, Craighead County Arkansas, Travel South along Arkansas Highway 1, 2.3 Miles to the Station on the Right. The Station is a Standard 3 inch Aluminum ARDOT GPS Cap Stamped 160049 (2024), Set Just Below the Ground Surface on Top of a 5/8 inch Rebar 4 foot in Length.The Station is 76 Feet (23.16 Meters) West of the Centerline of Arkansas Highway 1 and 36 Feet (10.97 Meters) Northeast of a Witness Post. In the lawn of the Free Will Baptist Church

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	288	11.27	37.0
MK # 2	Combination Pole with Light	38	46.02	151.0
MK # 3				

AZ Mark Station	160049A
Geodetic Azimuth	290 49 39.6
Grid Azimuth	290 03 27.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWY
Ref Mon # 3	AROC

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160049A	11/25/2024	ARDOT	CRAIGHEAD	1	101193

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	160,793.2758	0.0010
Easting (M)	519,445.1607	0.0010
Elevation (M)*	89.289	

Northing (SFT)	527,535.9390	
Easting (SFT)	1,704,212.9981	
Elevation (SFT)*	292.944	

Convergence Angle	0	46	7.5753890
Scale Factor			0.999941485
Elevation Adjust. Factor			0.9999859878
Combined Adjust. Factor			0.9999274736

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	46	31.6359480
Longitude	90	40	43.8915000
Ellipsoid Height (M):	61.478		0.0030
Geoid Height (M):	-27.792		

Location Description

From the Intersection of Interstate Hwy 555 and Arkansas Highway 1 South located in Jonesboro, Craighead County Arkansas, Travel South along Arkansas Highway 1, 2.9 Miles to South Caraway Road, Then Travel North along South Caraway Road 0.5 Miles to the Station on the Right. The Station is a Standard 3 inch Aluminum ARDOT GPS Cap Stamped 160049A (2024), Set Just Below the Ground Surface on Top of a 5/8 inch Rebar 4 foot in Length.The Station is 41 Feet (12.50 Meters) East of the Centerline of South Caraway Road and 50 Feet (15.24 Meters) North of a Witness Post. 25 feet South of the centerline of an asphalt drive leading to the Pentecostals of Jonesboro Church.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	190	15.24	50.0
MK # 2		172	15.24	50.0
MK # 3				

AZ Mark Station	160049
Geodetic Azimuth	110 49 39.6
Grid Azimuth	110 03 27.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWY
Ref Mon # 3	AROC

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160050	11/24/2025	ARDOT	Craighead	HNSON	012559

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	168,549.7974	0.0010
Easting (M)	519,103.3626	0.0010
Elevation (M)*	93.464	
Northing (SFT)	552,983.7936	
Easting (SFT)	1,703,091.6155	
Elevation (SFT)*	306.641	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	50	43.4399244	
Longitude	90	40	53.3641584	
Ellipsoid Height (M):	65.625			0.0050
Geoid Height (M):	-27.834			

Convergence Angle	0	46	2.0632573
Scale Factor	0.999946290		
Elevation Adjust. Factor	0.9999853326		
Combined Adjust. Factor	0.9999316234		

Location Description

FROM THE INTERSECTION OF REDWOLF BLVD. AND E. JOHNSON AVE. GO WEST ON E. JOHNSON AVE FOR 0.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 41' SOUTHEAST OF THE CENTERLINE OF E. JOHNSON AVE. AND 61.1' EAST OF THE CENTERLINE OF MARION BERRY PKWY.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	252	24.32	79.8
MK # 2	NORTH END OF ASU SIGN	301	10.67	35.0
MK # 3				

AZ Mark Station	160050A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV WAS EST. BY DIGITAL LEVELS FROM NGS BM P 331 AND N 331 DURING JOB 012559 IN NOV.2025 BY CREW S5113.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
160050A	11/24/2025	ARDOT	Craighead	HNSON	012559

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	168,765.5695	0.0010
Easting (M)	519,445.0864	0.0010
Elevation (M)*	92.564	
Northing (SFT)	553,691.7059	
Easting (SFT)	1,704,212.7543	
Elevation (SFT)*	303.686	

Convergence Angle	0	46	10.0542367	
Scale Factor			0.999946442	
Elevation Adjust. Factor			0.9999854740	
Combined Adjust. Factor			0.9999319167	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	50	50.2917612	
Longitude	90	40	39.6315732	
Ellipsoid Height (M):			64.724	0.0040
Geoid Height (M):			-27.838	

Location Description

FROM THE INTERSECTION OF REDWOLF BLVD. AND E. JOHNSON AVE. GO WEST ON E. JOHNSON AVE FOR 1.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 48.6' NORTHWEST OF THE CENTERLINE OF E. JOHNSON AVE. AND 33.4' NORTHEAST OF THE CENTERLINE OF GAS STATION DRIVEWAY.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	118	3.23	10.6
MK # 2	LIGHT POLE	228	19.48	63.9
MK # 3				

AZ Mark Station	160050
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV WAS EST. BY DIGITAL LEVELS FROM NGS BM P 331 AND N 331 DURING JOB 012559 IN NOV.2025 BY CREW S5113.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
17 EV 1973	3/1/2011	AHTD	NEVADA	371	030394

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	494,999.5502
Easting (M)	279,346.9340
Elevation (M)*	106.564
Northing (SFT)	1,624,011.0243
Easting (SFT)	916,490.7326
Elevation (SFT)*	349.620
Convergence Angle	0 43 36.8488837
Scale Factor	0.999959085
Elevation Adjust. Factor	0.9999832769
Combined Adjust. Factor	0.9999423625

Vertical Determined By:	3rd Order by USGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	30	58.6426716
Longitude	93	17	55.5269388
Ellipsoid Height (M):	79.422		
Geoid Height (M):	-26.533		

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 371 AND ARKANSAS STATE HIGHWAY 32 IN WILLISVILLE, GO SOUTH ON HIGHWAY 371 300 FEET TO THE MARK ON THE RIGHT, WEST OF THE CENTERLINE OF HIGHWAY 371 30.7 FEET, SOUTH OF THE CENTERLINE OF A CONCRETE DRIVE 25.4 FEET AND 1 FOOT SOUTH OF A WITNESS POST. THE STATION MARK IS A 4 INCH BRASS CAP STAMPED "17 EV 1973" ON TOP OF AN IRON REBAR DRIVEN TO 8 INCHES ABOVE THE GROUND SURFACE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	N/E COR. OF BUILDING	203	6.55	21.5
MK # 2	CP WITH GUY & LIGHT	180	0.43	1.4
MK # 3				

AZ Mark Station	500005
Geodetic Azimuth	159 24 36
Grid Azimuth	160 08 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	290020

Comments

THIRD ORDER BENCH

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170001	1/23/1992	AHTD	CRAWFORD	282	040456,40086,040086

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	127,107.8311
Easting (M)	190,280.0990
Elevation (M)*	149.063
Northing (SFT)	417,019.6092
Easting (SFT)	624,277.2915
Elevation (SFT)*	489.052

Convergence Angle	-1	20	40.3472893
Scale Factor			0.999938393
Elevation Adjust. Factor			0.9999766076
Combined Adjust. Factor			0.9999150021

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	27	24.7524012
Longitude	94	18	38.1858084
Ellipsoid Height:			121.164
Grid Northing (Meters)			127,108.0491
Grid Easting (Meters)			190,280.2003

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	27	24.7452516
Longitude	94	18	38.1896244
Ellipsoid Height (M):	119.437		
Geoid Height (M):	-29.630		

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 64 IN ALMA, GO WEST ON HWY. 64 TO THE JCT. OF HWY. 64 AND HWY. 282, TURN NORTH ON HWY. 282 AND GO 0.40 MILES ACROSS A BRIDGE AND THE STATION ON THE RIGHT, THE STATION IS 2.70 FEET EAST OF THE GUARD RAIL AND 5.10 FEET NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN TOP OF FENCE POST	261	11.26	36.9
MK # 2	NBC IN TOP OF FENCE POST	171	1.67	5.5
MK # 3	NBC IN TOP OF FENCE POST	94	4.97	16.3

AZ Mark Station	170001A
Geodetic Azimuth	257 15 51
Grid Azimuth	258 36 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	DQUA, 170011
Ref Mon # 2	ARFY, 170012
Ref Mon # 3	SAL1, 170013

Comments

ELEV. ESTABLISHED IN MARCH 2013 UNDER JOB #040086 BY S5112 FROM AHTD GPS #170001A USING DIGITAL LEVELS. ELEV. TO 170001A WAS ESTABLISHED IN NOV. 2012 UNDER JOB #BB0407 BY S5112 FROM NGS 1ST ORDER BM J 311 USING DIGITAL LEVELS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170001A	1/23/1992	AHTD	CRAWFORD	540	040456,40086,BB0407,040086

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	126,920.0370	
Easting (M)	189,348.0194	
Elevation (M)*	148.408	
Northing (SFT)	416,403.4881	
Easting (SFT)	621,219.2936	
Elevation (SFT)*	486.900	

Convergence Angle	-1	21	1.7496472
Scale Factor			0.999938467
Elevation Adjust. Factor			0.9999767106
Combined Adjust. Factor			0.9999151790

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	27	17.9481600
Longitude	94	19	14.9655400
Ellipsoid Height:			120.319
Grid Northing (Meters)			126,920.2280
Grid Easting (Meters)			189,348.1316

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	27	17.9418802
Longitude	94	19	14.9698099
Ellipsoid Height (M):	118.759		
Geoid Height (M):	-29.648		

Location Description

THE STATION IS IS BETWEEN THE SOUTH ENDS OF THE I-540 BRIDGES AT THE I-540 AND I-40 INTERCHANGE, 37.0 FEET SOUTHWEST OF THE SOUTHWEST BRIDGE END OF BRIDGE NO. 3453, 48.0 FEET SOUTHEAST OF THE SOUTHEAST BRIDGE END OF BRIDGE NO. 3452 AND 33.20 FEET WEST OF A WITNESS POST ON A HIGH POINT IN THE MEDIAN.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"X" CUT IN TOP OF BRIDGE END	277	14.00	45.9
MK # 2	"X" CUT IN TOP OF CONCRETE GUARD R	84	11.32	37.1
MK # 3	X" CUT IN TOP OF CONCRETE GUARD RAIL	120	13.41	44.0

AZ Mark Station	170001
Geodetic Azimuth	77 15 29
Grid Azimuth	78 36 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	DQUA, 170011
Ref Mon # 2	ARFY, 170012
Ref Mon # 3	SAL1, 170013

Comments

ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "J 311" USING DIGITAL LEVELS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170002A	1/23/1992	AHTD	CRAWFORD	40	040456,40086,040086

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	127,919.3070
Easting (M)	192,824.0790
Elevation (M)*	161.745
Northing (SFT)	419,681.9264
Easting (SFT)	632,623.6659
Elevation (SFT)*	530.658

Convergence Angle	-1	19	42.0873875
Scale Factor			0.999938100
Elevation Adjust. Factor			0.9999746176
Combined Adjust. Factor			0.9999127192

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	27	53.0024616
Longitude	94	16	58.0669104
Ellipsoid Height:			134.333
Grid Northing (Meters)			127,919.5264
Grid Easting (Meters)			192,824.1455

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	27	52.9952940
Longitude	94	16	58.0693476
Ellipsoid Height (M):	132.180		
Geoid Height (M):	-29.572		

Location Description

FROM JCT. OF HWY. 64 AND HWY. 60, GO NORTH ON HWY. 60 TO THE FIRST PAVED ROAD ON THE RIGHT, GO EAST 0.35 MILES TO THE STATION ON THE RIGHT, THE STATION IS ACROSS FROM THE ENTRANCE TO ARKOLA QUARRY AND 5.2 FEET SOUTH OF A WITNESS POST AND R/W FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN TOP OF FENCE POST	261	4.58	15.0
MK # 2	NBC IN TOP OF FENCE POST	23	2.32	7.6
MK # 3	NBC IN TOP OF FENCE POST	51	8.06	26.4

AZ Mark Station	170002
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 170011
Ref Mon # 2	DQUA, 170012
Ref Mon # 3	SAL1, 170013

Comments

ELEV. ESTABLISHED IN MARCH 2013 UNDER JOB #040086 BY S5112 FROM AHTD GPS #170001A USING DIGITAL LEVELS. ELEV. TO 170001A WAS ESTABLISHED IN NOV. 2012 UNDER JOB #BB0407 BY S5112 FROM NGS 1ST ORDER BM J 311 USING DIGITAL LEVELS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170003	5/11/1993	AHTD	CRAWFORD	220	40128

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	154,223.2299
Easting (M)	188,967.4100
Elevation (M)*	
Northing (SFT)	505,980.7134
Easting (SFT)	619,970.5776
Elevation (SFT)*	

Convergence Angle	-1	21	25.4530820
Scale Factor	0.999938002		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	42	3.3573420
Longitude	94	19	55.7044212
Ellipsoid Height (M):	225.214		
Geoid Height (M):	-29.259		

Location Description

FROM THE JCT. OF HWY. 59 AND HWY. 220 NORTH OF CEDARVILLE, TURN RIGHT ON HWY. 220 AND GO 9.43 MILES TO THE STATION ON THE LEFT, THE STATION IS 46 FEET WEST OF THE CENTERLINE OF HWY. 220 AND 2.0 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 6" PINE	77	23.55	77.3
MK # 2	NBC IN 8" CEDAR	104	24.74	81.2
MK # 3	NBC IN 10" CEDAR	190	33.88	111.2

AZ Mark Station	SEE NOTES
Geodetic Azimuth	144 58 42.6
Grid Azimuth	146 20 08.05

Area Reference Monuments (used for Processing)

Ref Mon # 1	BOSTON AZ. #2
Ref Mon # 2	GRASSY ROCK RESET
Ref Mon # 3	NONE

Comments

AZIMUTH MARK IS T-1 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93170003)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170004	5/11/1993	AHTD	CRAWFORD	220	40128

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	155,582.7399	
Easting (M)	191,188.8740	
Elevation (M)*		
Northing (SFT)	510,441.0392	
Easting (SFT)	627,258.8308	
Elevation (SFT)*		

Convergence Angle	-1	20	34.7821918
Scale Factor			0.999938477
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	42	49.1567616
Longitude	94	18	28.6259436
Ellipsoid Height (M):	238.189		
Geoid Height (M):	-29.196		

Location Description

FROM CEDARVILLE GO NORTH TO HWY. 220, TURN RIGHT AND GO TO THE END OF STATE MAINTENANCE OF HWY. 220 CROSSING BRIDGE OVER LEE CREEK, CONTINUE AHEAD 0.62 MILES TO A "Y", GO RIGHT 1.0 MILES CROSSING A LOW WATER BRIDGE AND THE STATION ON THE RIGHT, THE STATION IS 114.31 FEET NORTH OF THE LOW WATER BRIDGE, 16.95 FEET EAST OF THE CENTER LINE OF CO. RD. NO. 61 AND 2.00 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN DOUBLE 8" PINE	25	20.64	67.7
MK # 2	NBC IN 8" PINE	73	20.65	67.8
MK # 3	NBC IN 12" GUM	135	15.96	52.4

AZ Mark Station	SEE NOTES
Geodetic Azimuth	7 41 54.0
Grid Azimuth	9 02 28.78

Area Reference Monuments (used for Processing)

Ref Mon # 1	BOSTON AZ. #2
Ref Mon # 2	GRASSY ROCK RESET
Ref Mon # 3	NONE

Comments

AZIMUTH MARK IS T-27 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93170004)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170005A	9/13/1995	AHTD	CRAWFORD	I-40	40226,040348,040714, 04087

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	127,959.1898	0.0040
Easting (M)	185,528.2761	0.0040
Elevation (M)*	159.380	
Northing (SFT)	419,812.7752	
Easting (SFT)	608,687.3525	
Elevation (SFT)*	522.898	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	27	48.7042812	
Longitude	94	21	47.4014664	
Ellipsoid Height (M):	129.657			0.0070
Geoid Height (M):	-29.728			0.0070

Convergence Angle	-1	22	30.4494952
Scale Factor	0.999938143		
Elevation Adjust. Factor	0.9999749887		
Combined Adjust. Factor	0.9999131333		

Location Description

FROM THE JCT. OF HWY. 59 AND I-40 IN THE TOWN OF VAN BUREN, GO WEST ON I-40 FROM THE OVERPASS FOR 0.563 KM (0.35 MILES) TO THE STATION IN THE MEDIAN. THE STATION IS 4.40 METERS NORTH OF THE EDGE OF THE EASTBOUND LANES AND 1.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "170005A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH GROUND.***UPDATED DESCRIPTION*** GUARD RAIL HAS BEEN REPLACED AND ROAD HAS BEEN OVERLAID. MARK IS 6.5 FEET NORTH FROM BACK OF GUARD RAIL ON EAST BOUND LANE. MARK IS 1.0 FEET BELOW GROUND AND 3 FT NORTH OF WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	27	48.7110276
Longitude	94	21	47.3955588
Ellipsoid Height:	129.117		
Grid Northing (Meters)	127,959.3941		
Grid Easting (Meters)	185,528.4300		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN CENTER OF CONCRETE HEADW ALL	59	53.30	174.9
MK # 2	"X" CUT IN CENTER OF CONCRETE HEADW ALL	90	25.70	84.3
MK # 3	PUNCH MARK IN TOP OF GUARD RAIL POS T	263	6.05	19.8

AZ Mark Station	170005
Geodetic Azimuth	99 36 54.9001
Grid Azimuth	100 59 25.3272

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (92170001)
Ref Mon # 2	ARRV (FORT SMITH GIS NO.
Ref Mon # 3	OKHV (GRASSY OFFSET)

Comments

OLD ELEV. 159.375m BASED ON NGVD29 = 159.280 meters ELEVATION BY 3-WIRE USING AHTD BM SET IN THE TOP OF E ABUTMENT 24 FT S OF C/L OF EASTBOUND LANE OF BR NO. 3273B AT HWY. 59 OVERPASS.
**********NEW ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM J 11 BY S5112 IN MARCH 2018 FOR JOB #040714 AND VERIFIED USING NGS 1ST

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170006	9/19/1995	AHTD	CRAWFORD	59	040226,B40107

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	125,005.5831	
Easting (M)	186,423.7570	
Elevation (M)*	135.296	
Northing (SFT)	410,122.4839	
Easting (SFT)	611,625.2761	
Elevation (SFT)*	443.884	

Convergence Angle	-1	22	8.1592746
Scale Factor	0.999939215		
Elevation Adjust. Factor	0.9999787681		
Combined Adjust. Factor	0.9999179844		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	26	13.5848256
Longitude	94	21	9.0954792
Ellipsoid Height (M):	105.123		
Geoid Height (M):	-30.260		

Location Description

FROM THE JCT. OF HWY. 59 AND MAIN STREET IN THE TOWN OF VAN BUREN, GO 38.0 METERS NORTH ON HWY. 59 TO THE STATION ON THE RIGHT. THE STATION IS 31.0 METERS NORTHWEST OF THE OZARK SCENIC RAILWAY DEPOT, WHICH IS ALSO THE CHAMBER OF COMMERCE, 11.55 METERS EAST OF THE CENTER OF HWY. 59, 10.23 METERS NORTH-NORTHWEST OF THE NORTHERNMOST RAIL OF THE RAILROAD TRACK AND 0.55 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "170006 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	325	10.60	34.8
MK # 2	POWER POLE	63	12.39	40.6
MK # 3	RAILROAD SIGNAL LIGHT POLE	178	16.90	55.4

AZ Mark Station	170006A
Geodetic Azimuth	67 37 16.48430
Grid Azimuth	68 59 24.62430

Area Reference Monuments (used for Processing)

Ref Mon # 1	92170001
Ref Mon # 2	FORT SMITH GIS NO. 103
Ref Mon # 3	GRASSY OFFSET

Comments

From NGS point R28 NGVD29 = 135.038 meters135.383 meters THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "R 28 1932".
**********NOTE:
S5112 FOUND MARK DESTROYED IN NOV. 2015 & REPLACED W/GPS # 170027
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170006A	9/19/1995	AHTD	CRAWFORD	N/A	,B40107,4594,03D04,040721,

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	125,186.3939	0.0030
Easting (M)	186,894.9211	0.0030
Elevation (M)*	135.459	
Northing (SFT)	410,715.6940	
Easting (SFT)	613,171.0870	
Elevation (SFT)*	444.419	

Convergence Angle	-1	21	57.3909794
Scale Factor			0.999939139
Elevation Adjust. Factor			0.9999787425
Combined Adjust. Factor			0.9999178828

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	26	19.8217572
Longitude	94	20	50.5846860
Ellipsoid Height:			105.217
Grid Northing (Meters)			125,186.5921
Grid Easting (Meters)			186,895.0610

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	26	19.8152196	
Longitude	94	20	50.5900464	
Ellipsoid Height (M):			105.631	0.0080
Geoid Height (M):			-29.824	0.0080

Location Description

FROM THE JCT. OF HWY. 59 AND MAIN STREET IN THE TOWN OF VAN BUREN, GO EAST ON HWY. 59 (MAIN STREET) FOR 0.820 KM (0.25 MILES) TO SOUTH ELEVENTH (11TH) STREET, TURN LEFT AND GO NORTH ON ELEVENTH STREET 11TH) FOR 0.492 KM (0.15 MILES) TO CEDAR STREET, TURN RIGHT ON CEDAR STREET AND GO 0.164 KM (0.05MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.30 METERS NORTH OF THE VAN BUREN PUBLIC LIBRARY, 8.89 METERS NORTH OF THE CENTER OF CEDAR STREET, 3.50 METERS SOUTH OF THE SOUTHERNMOST RAIL OF THE RAILROAD TRACK AND 0.84 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "170006A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LAMP POST	188	19.25	63.2
MK # 2	RAILROAD CROSSING SIGN	243	12.15	39.9
MK # 3	CHAIN LINK FENCE CORNER	287	20.00	65.6

AZ Mark Station	170006
Geodetic Azimuth	247 37 27.21724
Grid Azimuth	248 59 24.62430

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (92170001)
Ref Mon # 2	ARHR(FORT SMITH GIS NO. 1
Ref Mon # 3	ARLR, SAL5 (GRASSY OFFSE

Comments

OLD ELEV. (135.379m) From NGS point R28 135.466 meters THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. "R 28 1932".
**********UPDATED ELEV. BY S5112 IN NOV. 2015 FOR JOB # 040721 USING DIGITAL LEVELS FROM 1ST ORDER NGS BM R 28
**********UPDATE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170012A	12/1/2004	AHTD	CRAWFORD	64	040431,040456

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	130,303.1501	
Easting (M)	198,959.5160	
Elevation (M)*	132.546	
Northing (SFT)	427,502.9183	
Easting (SFT)	652,753.0121	
Elevation (SFT)*	434.863	

Convergence Angle	-1	17	21.7542453
Scale Factor	0.999937355		
Elevation Adjust. Factor	0.9999791996		
Combined Adjust. Factor	0.9999165559		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	29	14.8767144
Longitude	94	12	56.9053116
Ellipsoid Height (M):	103.094		
Geoid Height (M):	-29.414		

Location Description

To reach the station from the junction of Highways 71B and 64 in Alma go east on hwy-64 for 0.60 miles to the station on the right. 13.0 meters southeast of the center of highway 64 and 0.50 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "170012A 2004" set on top of an iron rod 1.22 meters long and is 0.10 meters below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW corner of headwall	52	22.90	75.1
MK # 2	Guy wire	114	26.60	87.3
MK # 3				

AZ Mark Station	170012
Geodetic Azimuth	243 08 19
Grid Azimuth	244 25 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS 2
Ref Mon # 2	Gaylor
Ref Mon # 3	170011,Ozarport,

Comments

3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170013	12/1/2004	AHTD	CRAWFORD	64	040431,040456

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	127,906.5671	
Easting (M)	193,704.1300	
Elevation (M)*	156.811	
Northing (SFT)	419,640.1289	
Easting (SFT)	635,510.9665	
Elevation (SFT)*	514.471	

Convergence Angle	-1	19	21.7742698
Scale Factor	0.999938097		
Elevation Adjust. Factor	0.9999753918		
Combined Adjust. Factor	0.9999134904		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	27	53.2426104
Longitude	94	16	23.1610332
Ellipsoid Height (M):	127.248		
Geoid Height (M):	-29.563		

Location Description

To reach the station from the junction of highways 71B and 64 in Alma go west on hwy-64 for 2.90 miles to the station on the right in front of a church parking lot. 18.10 meters northwest of the center of the west bound lane of hwy-64 and 0.50 meters southeast of a witness post. The station mark is a standard 64mm cap stamped "170013 2004" set on top of an iron rod 1.22 meters long and is 0.10 meters below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	278	7.80	25.6
MK # 2	gas meter	32	11.40	37.4
MK # 3	Water valve	59	9.50	31.2

AZ Mark Station	170013A
Geodetic Azimuth	67 29 14
Grid Azimuth	68 48 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS 2
Ref Mon # 2	Gaylor
Ref Mon # 3	170011,Ozarport,

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170013A	12/1/2004	AHTD	CRAWFORD	64	040431,040456

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	128,149.4360	
Easting (M)	194,330.6060	
Elevation (M)*	152.718	
Northing (SFT)	420,436.9413	
Easting (SFT)	637,566.3299	
Elevation (SFT)*	501.043	

Convergence Angle	-1	19	7.4479110
Scale Factor	0.999938014		
Elevation Adjust. Factor	0.9999760341		
Combined Adjust. Factor	0.9999140496		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	28	1.5900024
Longitude	94	15	58.5410292
Ellipsoid Height (M):	123.098		
Geoid Height (M):	-29.548		

Location Description

To reach the station from the junction of highways 71B and 64 in Alma go west on highway 64 for 2.50 miles to the station on the left just west of a paved lane connecting the east and west bound lanes. The station is 11.30 meters northwest of the center of the east bound lane of hwy-64 and 9.40 meters southeast of the center of the west bound lane and 0.50 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "170013A 2004" set on top of an iron rod 1.22 meters long and is 0.10 meters below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southeast corner of a headwall	248	4.10	13.5
MK # 2	Southeast corner of a headwall	184	7.70	25.3
MK # 3	Center of a paved turn around	60	16.70	54.8

AZ Mark Station	170013
Geodetic Azimuth	247 29 28
Grid Azimuth	248 48 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS 2
Ref Mon # 2	Gaylor
Ref Mon # 3	170011,Ozarport,

Comments

3-wire Elevations were ran by S5103 in Job 040456 in April 2006 from NGS L28 and RV40.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170014	12/1/2004	AHTD	CRAWFORD	282	040445,040256

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	141,365.2030
Easting (M)	199,234.5360
Elevation (M)*	206.074
Northing (SFT)	463,795.6702
Easting (SFT)	653,655.3069
Elevation (SFT)*	676.094

Convergence Angle	-1	17	21.1524971
Scale Factor			0.999935937
Elevation Adjust. Factor			0.9999676613
Combined Adjust. Factor			0.9999036004

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	35	13.9389864
Longitude	94	12	55.8712008
Ellipsoid Height (M):	177.097		
Geoid Height (M):	-28.977		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTAINBURG, GO WEST ON HIGHWAY 282 3.8 MILES TO A COUNTY ROAD ON THE RIGHT KNOWN AS OVERLOOK TRAIL, AND TURN RIGHT AND GO PAST THIRD FIELD ENTRANCE ON THE LEFT TO THE STATION ON THE LEFT, 16.90 METERS NORTHEAST OF THE CENTERLINE OF THE ROAD AND SOUTHWEST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170014 2004" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	22	11.55	37.9
MK # 2	16" CMP	199	10.95	35.9
MK # 3	C/L FIELD ENTRANCE ROAD	270	485.00	1,591.2

AZ Mark Station	170014A
Geodetic Azimuth	190 20 35
Grid Azimuth	191 37 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR, AHTD FS 2
Ref Mon # 2	OKMU
Ref Mon # 3	OZARPORT

Comments

ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK Y 311 BY CREW S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170014A	12/1/2004	AHTD	CRAWFORD	540	040445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	140,875.7570	
Easting (M)	199,133.7810	
Elevation (M)*	255.213	
Northing (SFT)	462,189.8794	
Easting (SFT)	653,324.7465	
Elevation (SFT)*	837.310	

Convergence Angle	-1	17	23.2262306
Scale Factor	0.999935936		
Elevation Adjust. Factor	0.9999599504		
Combined Adjust. Factor	0.9998958890		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	34	57.9875268
Longitude	94	12	59.4349344
Ellipsoid Height (M):	226.182		
Geoid Height (M):	-28.996		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 282 AND I-540 (EXIT 29), SOUTH OF MOUNTIANBURG, GO SOUTH ON I-540 2.7 MILES TO THE STATION ON THE RIGHT, SOUTHWEST 8.55 METERS FROM THE CENTERLINE OF THE SOUTH BOUND LANE, SOUTHWEST OF A BRIDGE AT MILE MARKER 27 AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170014A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUARD RAIL POST	115	1.15	3.8
MK # 2	GUARD RAIL POST	200	7.80	25.6
MK # 3				

AZ Mark Station	170014
Geodetic Azimuth	10 20 32
Grid Azimuth	11 37 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR, AHTD FS 2
Ref Mon # 2	OKMU
Ref Mon # 3	OZARPORT

Comments

ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5110 in Job 040445 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170015	12/1/2004	AHTD	CRAWFORD	282	040445,040256

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	143,600.8610	
Easting (M)	202,149.4190	
Elevation (M)*	208.949	
Northing (SFT)	471,130.4915	
Easting (SFT)	663,218.5522	
Elevation (SFT)*	685.527	

Convergence Angle	-1	16	14.9366919
Scale Factor	0.999936021		
Elevation Adjust. Factor	0.9999672102		
Combined Adjust. Factor	0.9999032333		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	36	28.5778872
Longitude	94	11	2.0786172
Ellipsoid Height (M):	180.089		
Geoid Height (M):	-28.860		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTIANBURG, GO SOUTH ON HIGHWAY 282 1.4 MILES TO THE STATION ON THE RIGHT, NORTHWEST 19.90 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170015 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" CMP	240	8.65	28.4
MK # 2	C/L ASPH DRIVEWAY	270	11.70	38.4
MK # 3	GATE POST	282	9.35	30.7

AZ Mark Station	170015A
Geodetic Azimuth	20 25 21
Grid Azimuth	21 41 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR, AHTD FS 2
Ref Mon # 2	OKMU
Ref Mon # 3	OZARPORT

Comments

ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170015A	12/1/2004	AHTD	CRAWFORD	282	040445,040256

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	144,194.9010
Easting (M)	202,385.7370
Elevation (M)*	213.376
Northing (SFT)	473,079.4377
Easting (SFT)	663,993.8721
Elevation (SFT)*	700.051

Convergence Angle	-1	16	9.7783258
Scale Factor	0.999936064		
Elevation Adjust. Factor	0.9999665155		
Combined Adjust. Factor	0.9999025816		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	36	48.0188844
Longitude	94	10	53.2139088
Ellipsoid Height (M):	184.543		
Geoid Height (M):	-28.833		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 282, SOUTH OF MOUNTIANBURG, GO SOUTH ON HIGHWAY I-540 1.0 MILES TO THE STATION ON THE RIGHT, NORTHWEST 8.10 METERS OF THE CENTERLINE OF THE SOUTHBOUND LANE AND NORTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "170015A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	115	1.15	3.8
MK # 2	SIDEWALK	45	14.90	48.9
MK # 3	GUARD RAIL POST	200	7.80	25.6

AZ Mark Station	170015
Geodetic Azimuth	200 25 26
Grid Azimuth	201 41 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR, AHTD FS 2
Ref Mon # 2	OKMU
Ref Mon # 3	OZARPORT

Comments

ELEVATION DETERMINED BY 3 WIRE LEVELS ON 12/1/04 FROM NGS BENCH MARK E 28 BY CREW S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170016	2/7/2006	AHTD	CRAWFORD	NA	56,040485,040721,040373,04

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	128,307.9549	0.0010
Easting (M)	196,794.9284	0.0010
Elevation (M)*	126.935	
Northing (SFT)	420,957.0154	
Easting (SFT)	645,651.3609	
Elevation (SFT)*	416.454	

Convergence Angle	-1	18	10.6671044
Scale Factor	0.999937946		
Elevation Adjust. Factor	0.9999800801		
Combined Adjust. Factor	0.9999180273		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	28	8.5621152
Longitude	94	14	20.9631336
Ellipsoid Height:	97.422		
Grid Northing (Meters)	128,307.9641		
Grid Easting (Meters)	196,794.9150		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	35	28	8.5618272
Longitude	94	14	20.9625936
Ellipsoid Height (M):	97.332		0.0020
Geoid Height (M):	-29.592		0.0020

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 (FAYETTEVILLE STREET) 0.20 MILES AND TURN RIGHT ON MAIN STREET AND GO 0.90 MILES ON ROUGH FIELD ROAD TO THE STATION ON THE RIGHT, 2.3' NORTHEAST OLD DIRT ROAD AND SOUTHWEST 3.2' OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "170016 2006" ON TOP OF A 4' REBAR DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	27	7.28	23.9
MK # 2	LIGHT POLE W/TRANSFORMER	251	21.46	70.4
MK # 3	GUY	263	20.97	68.8

AZ Mark Station	170016A
Geodetic Azimuth	72 06 58
Grid Azimuth	73 25 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (ARFY, 170011)
Ref Mon # 2	ARHR, (DQUA, 170012)
Ref Mon # 3	OKHV, (SAL1, 170013)

Comments

NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.516m AND PREVIOUS ELEV. WAS 126.937m.
********** 3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170016A	2/7/2006	AHTD	CRAWFORD	NA	56,040485,040721,040373,04

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	128,421.8448	0.0010
Easting (M)	197,177.4163	0.0010
Elevation (M)*	126.280	
Northing (SFT)	421,330.6691	
Easting (SFT)	646,906.2400	
Elevation (SFT)*	414.304	

Convergence Angle	-1	18	1.9006772
Scale Factor			0.999937908
Elevation Adjust. Factor			0.9999801829
Combined Adjust. Factor			0.9999180921

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	28	12.5387112
Longitude	94	14	5.8977276
Ellipsoid Height:			96.770
Grid Northing (Meters)			128,421.8521
Grid Easting (Meters)			197,177.4080

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	28	12.5384808	
Longitude	94	14	5.8973928	
Ellipsoid Height (M):			96.690	0.0020
Geoid Height (M):			-29.584	0.0020

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 (FAYETTEVILLE STREET) 0.20 MILES AND TURN RIGHT ON MAIN STREET AND GO 0.60 MILES ON ROUGH FIELD ROAD TO THE STATION ON THE LEFT, 17' NORTHEAST OF THE CENTERLINE OF THE ROAD AND WEST 1.6 ' OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "170016A 2006" ON TOP OF A 4' REBAR DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDERGROUND CABLE MARKER	74	2.83	9.3
MK # 2	POWER POLE	167	3.81	12.5
MK # 3	UNDERGROUND CABLE MARKER	198	6.71	22.0

AZ Mark Station	170016
Geodetic Azimuth	252 07 07
Grid Azimuth	253 25 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (ARFY, 170011)
Ref Mon # 2	ARHR, (DQUA, 170012)
Ref Mon # 3	OKHV, (SAL1, 170013)

Comments

NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.507 AND PREVIOUS ELEV. WAS 126.277m.
********** 3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170017	2/7/2006	AHTD	CRAWFORD	162	040456

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	126,096.7490	
Easting (M)	198,683.0050	
Elevation (M)*	124.070	
Northing (SFT)	413,702.4173	
Easting (SFT)	651,845.8256	
Elevation (SFT)*	407.053	

Convergence Angle	-1	17	25.9491708
Scale Factor	0.999938686		
Elevation Adjust. Factor	0.9999805298		
Combined Adjust. Factor	0.9999192169		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	26	58.2145404
Longitude	94	13	4.1143368
Ellipsoid Height (M):	94.498		
Geoid Height (M):	-29.571		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64B AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 FOR 2.3 MILES TO THE STATION MARK ON THE LEFT, ON THE NORTH BANK OF FROG BAYOU AT NORTHEAST CORNER OF BRIDGE ACROSS SAID CREEK. THE STATION MARK IS 20 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 1.5 FEET WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170017 2006" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NOTHEAST CORNER BRIDGE	215	4.99	16.4
MK # 2	TELEPHONE RISER		9.87	32.4
MK # 3				

AZ Mark Station	170017A
Geodetic Azimuth	4 48 25
Grid Azimuth	6 05 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 170011
Ref Mon # 2	DQUA, 170012
Ref Mon # 3	SAL1, 170013

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170017A	2/7/2006	AHTD	CRAWFORD	162	040456,040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	126,733.1894	0.0010
Easting (M)	198,751.0008	0.0010
Elevation (M)*	121.725	
Northing (SFT)	415,790.4722	
Easting (SFT)	652,068.9085	
Elevation (SFT)*	399.360	

Convergence Angle	-1	17	24.7111934
Scale Factor	0.999938456		
Elevation Adjust. Factor	0.9999808977		
Combined Adjust. Factor	0.9999193549		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	27	18.9110952
Longitude	94	13	1.9872084
Ellipsoid Height:	92.181		
Grid Northing (Meters)	126,733.1901		
Grid Easting (Meters)	198,750.9920		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	35	27	18.9110772
Longitude	94	13	1.9868592
Ellipsoid Height (M):	92.078		0.0020
Geoid Height (M):	-29.624		0.0020

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64B AND STATE HIGHWAY 162, IN ALMA, GO SOUTH ON HIGHWAY 162 FOR 2.0 MILES TO THE STATION MARK ON THE LEFT, THE STATION MARK IS 27.7' EAST OF THE CENTERLINE OF THE HIGHWAY AND 1.5' WEST OF A WITNESS POST, AND NORTH OF A DIRT TURN IN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170017A 2006" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	8	24.78	81.3
MK # 2	CENTER OF HEADWALL	338	6.25	20.5
MK # 3				

AZ Mark Station	170017
Geodetic Azimuth	184 48 26
Grid Azimuth	186 05 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (ARFY, 170011)
Ref Mon # 2	ARHR, (DQUA, 170012)
Ref Mon # 3	OKHV, (SAL1, 170013)

Comments

NO PREVIOUS NOTES FOUND ON EXISTING ELEV. FROM JOB #040456 CTL FILE IT APPEARS ELEV. WAS ESTABLISHED BY 3-WIRE LEVELS FROM BM's L 28 & RV 40 DURING JOB #040456 IN APRIL 2006. PREVIOUS GEOID HT. WAS -29.549m AND PREVOUS ELEV. WAS 121.730m.
********** 3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170018	2/7/2006	AHTD	CRAWFORD	64	40456,4594,BB0407

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	126,008.6511
Easting (M)	189,346.7631
Elevation (M)*	
Northing (SFT)	413,413.3828
Easting (SFT)	621,215.1719
Elevation (SFT)*	
Convergence Angle	-1 21 1.2829816
Scale Factor	0.999938799
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NONE
Geoid Datum:	Geoid 96
Latitude	35 26 48.3752299
Longitude	94 19 14.1678401
Ellipsoid Height (M):	112.738
Geoid Height (M):	-29.681

Location Description

THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 64 AND I 540 IN VAN BUREN IN THE SOUTHWEST QUADRANT OF THE INTERSECTION. THE STATION IS 11.60 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 64 EAST BOUND LANES, 2.90 METERS SOUTHEAST OF A METAL GUARD RAIL, AND 1.5' NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "170018 2006" SET ON TOP OF AN IRON ROD 4' LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER OF OVERPASS	351	2.55	8.4
MK # 2				
MK # 3				

AZ Mark Station	170011
Geodetic Azimuth	172 51 03
Grid Azimuth	174 12 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 170011
Ref Mon # 2	DQUA, 170012
Ref Mon # 3	SAL1, 170013

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170019	4/17/2006	AHTD	Crawford	540	R40013,chester

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	150,633.5560	
Easting (M)	204,148.6290	
Elevation (M)*		
Northing (SFT)	494,203.5916	
Easting (SFT)	669,777.6270	
Elevation (SFT)*		

Convergence Angle	-1	15	32.2961892
Scale Factor			0.999937096
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	18.1541856
Longitude	94	9	48.8004480
Ellipsoid Height (M):	244.252		
Geoid Height (M):	-28.591		

Location Description

The station is located in the southeastern quadrant of the I-540 and highway 282 exit (exit 34) on top of a hill east of I-540 and south of highway 282. The station is a 2 1/2 inch cap stamped "170019 2006" set on top of a 4 foot long by 5/8 inch rebar a

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	170019A
Geodetic Azimuth	207 41 41
Grid Azimuth	208 57 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	Sal1
Ref Mon # 2	ARFY
Ref Mon # 3	170015

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170019A	4/17/2006	AHTD	Crawford	540	R40013

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,966.2089	
Easting (M)	203,779.4160	
Elevation (M)*		
Northing (SFT)	492,014.1370	
Easting (SFT)	668,566.3007	
Elevation (SFT)*		

Convergence Angle	-1	15	40.4976787
Scale Factor	0.999936940		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	39	56.2417128
Longitude	94	10	2.8947972
Ellipsoid Height (M):	222.162		
Geoid Height (M):	-28.618		

Location Description

To reach the station from the I-540 and Hwy-282 exit (exit 34) on I-540 go south on 540 for 0.30 miles to the station in the median at the north end of the bridge. 22.90 feet west of the center of the highway and 1.5 feet southeast of a witness post.The

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW bridge end	153	1.21	4.0
MK # 2	NE bridge end	291	19.32	63.4
MK # 3				

AZ Mark Station	170019
Geodetic Azimuth	27 41 33
Grid Azimuth	28 57 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	Sal1
Ref Mon # 2	ARFY
Ref Mon # 3	170015

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170020	4/17/2006	AHTD	Crawford	540	R40013,chester

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	154,353.5029
Easting (M)	201,233.2780
Elevation (M)*	369.773
Northing (SFT)	506,408.1174
Easting (SFT)	660,212.8462
Elevation (SFT)*	1,213.164

Convergence Angle	-1	16	41.6597968
Scale Factor			0.999938135
Elevation Adjust. Factor			0.9999419739
Combined Adjust. Factor			0.9998801125

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	42	16.7355684
Longitude	94	11	48.0025644
Ellipsoid Height (M):	341.283		
Geoid Height (M):	-28.489		

Location Description

To reach the station from the I-540 and Hwy-282 exit (exit 34) on I-540 southeast of Chester go north on 540 for 3.0 miles to the station on the left. 25.10 feet west of the center of the northbound lane and 1.50 feet east of a witness post.The station i

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	170020A
Geodetic Azimuth	346 01 50
Grid Azimuth	347 18 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	Sal1
Ref Mon # 2	ARFY
Ref Mon # 3	170015

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170020A	4/17/2006	AHTD	Crawford	540	R40013

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	155,429.9059
Easting (M)	200,990.8750
Elevation (M)*	337.395
Northing (SFT)	509,939.6163
Easting (SFT)	659,417.5624
Elevation (SFT)*	1,106.937

Convergence Angle	-1	16	47.8264183
Scale Factor			0.999938502
Elevation Adjust. Factor			0.9999470545
Combined Adjust. Factor			0.9998855598

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	42	51.4784016
Longitude	94	11	58.5999708
Ellipsoid Height (M):	308.939		
Geoid Height (M):	-28.456		

Location Description

To reach the station from the I-540 and Hwy-282 exit (exit 34) on I-540 southeast of Chester go north on 540 for 3.6 miles to the station on the left north of a bridge. 23.80 feet west of the center of the northbound lane and 1.50 feet east of a witness

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NW bridge end of I 540 northbound lane	122	1.65	5.4
MK # 2				
MK # 3				

AZ Mark Station	170020
Geodetic Azimuth	166 01 44
Grid Azimuth	167 18 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	Sal1
Ref Mon # 2	ARFY
Ref Mon # 3	170015

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170021	3/7/2012	AHTD	CRAWFORD	59	040623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	147,088.3339	
Easting (M)	183,009.2685	
Elevation (M)*	204.077	
Northing (SFT)	482,572.3088	
Easting (SFT)	600,422.9084	
Elevation (SFT)*	669.544	

Convergence Angle	-1	23	39.3130757
Scale Factor	0.999936332		
Elevation Adjust. Factor	0.9999679746		
Combined Adjust. Factor	0.9999043087		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	38	7.2677328
Longitude	94	23	45.7442808
Ellipsoid Height (M):	175.131		
Geoid Height (M):	-28.947		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 3.60 MILES TO A GRAVEL ROAD, (INDEPENDENCE RD.) TURN LEFT (WEST) AND GO 0.5 MILES THE MARK ON THE RIGHT. NORTHWEST 23.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND SOUTHEAST 2.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170021 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	153	12.65	41.5
MK # 2				
MK # 3				

AZ Mark Station	170021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKMU
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM LC 57 AND LC 58 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170021A	3/7/2012	AHTD	CRAWFORD	59	040623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	147,600.2854	
Easting (M)	183,619.3263	
Elevation (M)*	203.261	
Northing (SFT)	484,251.9363	
Easting (SFT)	602,424.4064	
Elevation (SFT)*	666.864	

Convergence Angle	-1	23	25.4944152
Scale Factor	0.999936409		
Elevation Adjust. Factor	0.9999681028		
Combined Adjust. Factor	0.9999045138		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	38	24.3558528
Longitude	94	23	21.9967620
Ellipsoid Height (M):	174.337		
Geoid Height (M):	-28.924		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 3.60 MILES THE MARK ON THE LEFT. NORTHWEST 23.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND SOUTHEAST 2.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170021 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	170021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKMU
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM LC 57 AND LC 58 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR. **NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR). *******REPORTED DESTROYED IN MAY 2016 BY R.E. # 42********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170022	3/7/2012	AHTD	CRAWFORD	59	040623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,704.3526	
Easting (M)	182,590.8747	
Elevation (M)*	212.997	
Northing (SFT)	491,155.0302	
Easting (SFT)	599,050.2281	
Elevation (SFT)*	698.809	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	39	31.7974248	
Longitude	94	24	4.9052196	
Ellipsoid Height (M):	184.130			
Geoid Height (M):	-28.867			

Convergence Angle	-1	23	50.4628093
Scale Factor	0.999936780		
Elevation Adjust. Factor	0.9999665749		
Combined Adjust. Factor	0.9999033570		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 5.1 MILES TO THE MARK ON THE RIGHT. NORTHEAST 27.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59.THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170022 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	17022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKMU
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 15 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR.
**NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170022A	3/7/2012	AHTD	CRAWFORD	59	040623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	150,158.2169	
Easting (M)	182,133.2115	
Elevation (M)*	231.171	
Northing (SFT)	492,644.0833	
Easting (SFT)	597,548.7114	
Elevation (SFT)*	758.433	

Convergence Angle	-1	24	1.3047317
Scale Factor			0.999936872
Elevation Adjust. Factor			0.9999637231
Combined Adjust. Factor			0.9999005974

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	39	46.1576304
Longitude	94	24	23.5371816
Ellipsoid Height (M):	202.315		
Geoid Height (M):	-28.855		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 5.55 MILES TO THE MARK ON THE RIGHT. NORTHEAST 31.0 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND SOUTHWEST 11.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170023A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF GATE POST	93	10.06	33.0
MK # 2				
MK # 3				

AZ Mark Station	170022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKMU
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 15 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR.
**NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170023	3/7/2012	AHTD	CRAWFORD	59	040623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	151,926.6176	
Easting (M)	179,138.7671	
Elevation (M)*	237.525	
Northing (SFT)	498,445.9112	
Easting (SFT)	587,724.4384	
Elevation (SFT)*	779.281	

Convergence Angle	-1	25	11.5800333
Scale Factor	0.999937272		
Elevation Adjust. Factor	0.9999627259		
Combined Adjust. Factor	0.9999000003		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	40	41.1306456
Longitude	94	26	24.3060540
Ellipsoid Height (M):	208.713		
Geoid Height (M):	-28.812		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 7.70 MILES THE MARK ON THE LEFT. SOUTHWEST 23.6 FEET FROM THE CENTERLINE OF STATE HIGHWAY 59 AND NORTHEAST 22.0 FEET OF A WITNESS POST .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170023 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	263	15.24	50.0
MK # 2	NORTH WEST CORNER OF CONCRETE BUIL DING	158	27.31	89.6
MK # 3				

AZ Mark Station	170023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKMU
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 16 DWB 1967 CONVERTED TO NAVD 88 USING CORPSCON AND CHECKED BY GPS USING GAYLOR.
**NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170023A	3/7/2012	AHTD	CRAWFORD	59	040623

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	152,134.4342	
Easting (M)	178,832.7926	
Elevation (M)*	235.982	
Northing (SFT)	499,127.7229	
Easting (SFT)	586,720.5871	
Elevation (SFT)*	774.218	

Convergence Angle	-1	25	18.7778927
Scale Factor	0.999937324		
Elevation Adjust. Factor	0.9999629681		
Combined Adjust. Factor	0.9999002944		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	40	47.6256540
Longitude	94	26	36.6756540
Ellipsoid Height (M):	207.175		
Geoid Height (M):	-28.806		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 8.0 MILES THE MARK ON THE RIGHT,.23.4 FEET SOUTHWEST FROM THE CENTERLINE OF STATE HIGHWAY 59 AND NORTHEAST 17.2 FEET .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170023A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF GATE	184	21.12	69.3
MK # 2				
MK # 3				

AZ Mark Station	170023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKMU
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY CREW S5112 IN JULY 2012 USING DIGITAL 3 WIRE LEVELS FROM 3RD ORDER BM 16 DWB 1967 CONVERTED TO NAVD 88 USING VERTCOM AND CHECKED BY GPS USING GAYLOR.
**NOTE: ELEV. FROM LEVELS USED IN FINAL STATIC ADJUSTMENT (ANY DIFFERENCE IN GPS DERIVED & LEVELS IS DUE TO ROUNDING ERROR).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170024	3/7/2012	AHTD	CRAWFORD	59	040622

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	153,928.9542	
Easting (M)	176,154.7266	
Elevation (M)*	260.258	
Northing (SFT)	505,015.2439	
Easting (SFT)	577,934.2989	
Elevation (SFT)*	853.864	

Convergence Angle	-1	26	21.7773273
Scale Factor	0.999937812		
Elevation Adjust. Factor	0.9999591586		
Combined Adjust. Factor	0.9998969732		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	41	43.6667676
Longitude	94	28	24.9408696
Ellipsoid Height (M):	231.495		
Geoid Height (M):	-28.764		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 10.3 MILES THE MARK ON THE LEFT, 6.7 FEET SOUTHWEST OF EDGE OF PAVEMENT IN A PULL OFF AREA .21.8 FEET SOUTHWEST FROM THE CENTERLINE OF STATE HIGHWAY 59. .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170024 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	170024A
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM'S "UE 16 B" & "9 DWB" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170024A	3/7/2012	AHTD	CRAWFORD	59	040622

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	154,402.1061	
Easting (M)	175,914.7246	
Elevation (M)*	259.039	
Northing (SFT)	506,567.5764	
Easting (SFT)	577,146.8923	
Elevation (SFT)*	849.864	

Convergence Angle	-1	26	27.6061857
Scale Factor	0.999937957		
Elevation Adjust. Factor	0.9999593500		
Combined Adjust. Factor	0.9998973095		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	41	58.8190560
Longitude	94	28	34.9578264
Ellipsoid Height (M):	230.289		
Geoid Height (M):	-28.750		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 10.6 MILES THE MARK ON THE RIGHT, SOUTHEAST OF THE CENTER LINE OF A DRIVE 20.3 FEET. 21.0 FEET NORTHEAST FROM THE CENTERLINE OF STATE HIGHWAY 59. .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170024A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF FENCE	22	7.01	23.0
MK # 2	HEAD WALL	312	14.23	46.7
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	170024
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM'S "UE 16 B" & "9 DWB" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170025	3/7/2012	AHTD	CRAWFORD	59	040622

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	158,941.6518	
Easting (M)	176,300.8030	
Elevation (M)*	308.416	
Northing (SFT)	521,461.0693	
Easting (SFT)	578,413.5512	
Elevation (SFT)*	1,011.862	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	44	26.3861772	
Longitude	94	28	24.1403052	
Ellipsoid Height (M):	279.811			
Geoid Height (M):	-28.605			

Convergence Angle	-1	26	21.3114795	
Scale Factor	0.999939649			
Elevation Adjust. Factor	0.9999516018			
Combined Adjust. Factor	0.9998912537			

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 13.7 MILES THE MARK ON THE LEFT, EAST OF THE OZARK NATIONAL FORREST SIGN 21.4 FEET,WEST OF EDGE OF PAVEMENT 3.2FEET, 17.3 FEET WEST FROM THE CENTERLINE OF STATE HIGHWAY 59. .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170025 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	170025A
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM "UE 7 A" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170025A	3/7/2012	AHTD	CRAWFORD	59	040622

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	159,355.6021	
Easting (M)	176,388.4752	
Elevation (M)*	316.441	
Northing (SFT)	522,819.1712	
Easting (SFT)	578,701.1891	
Elevation (SFT)*	1,038.191	

Convergence Angle	-1	26	19.5223862
Scale Factor	0.999939829		
Elevation Adjust. Factor	0.9999503425		
Combined Adjust. Factor	0.9998901745		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	44	39.8851440
Longitude	94	28	21.0657288
Ellipsoid Height (M):	287.849		
Geoid Height (M):	-28.593		

Location Description

TO REACH THE STATION MARK FROM THE JUCTION OF STATE HIGHWAY 220 AND STATE HIGHWAY 59 NORTH, SOUTH OF NATURAL DAM, GO NORTH ON STATE HIGHWAY 59, 14.0 MILES THE MARK ON THE RIGHT, 17.3 FEET EAST FROM THE CENTERLINE OF STATE HIGHWAY 59 AND WEST OF A WITNESS POST 22.7 FEET. .THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170025A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	170025
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN JULY 2012 FROM 3RD ORDER USGS BM "UE 7 A" CONVERTED FROM NGVD 29 TO NAVD 88 USING CORPSCON AND CHECKED WITH GPS FROM 1ST ORDER NGS BM "GAYLOR". **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL GPS STATIC ADJUSTMENT, ANY ELEV. DIFFERENCE IS DUE TO ROUNDING ERROR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170026	11/13/2012	AHTD	CRAWFORD	8th STRE	BB0407, 03D04, 040721

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,338.2836	0.0030
Easting (M)	188,536.2036	0.0030
Elevation (M)*	131.270	
Northing (SFT)	407,933.1854	
Easting (SFT)	618,555.8613	
Elevation (SFT)*	430.674	

Convergence Angle	-1	21	19.0698019
Scale Factor			0.999939468
Elevation Adjust. Factor			0.9999793999
Combined Adjust. Factor			0.9999188692

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	25	53.5669968
Longitude	94	19	44.7349440
Ellipsoid Height:			101.521
Grid Northing (Meters)			124,338.2865
Grid Easting (Meters)			188,536.1971

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	25	53.5669068	
Longitude	94	19	44.7346848	
Ellipsoid Height (M):			101.417	0.0080
Geoid Height (M):			-29.839	0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 64, NORTHEAST OF FORT SMITH, GO WEST ON HIGHWAY 64 0.6 MILES TO SOUTH 28th STREET AND TURN LEFT (SOUTH) AND GO 0.7 MILES TO THE MARK ON THE RIGHT AT THE SOUTHWEST CORNER OF THE 28th STREET BRIDGE OVER I 540. THE MARK IS 7.2 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE BRIDGE, 18 FEET WEST OF THE CENTERLINE OF THE STREET AND WEST 0.8 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 CAP STAMPED "170026 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	170026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (ARFY)
Ref Mon # 2	ARHR (OKHV)
Ref Mon # 3	ARLR, SAL5 (ARRS)

Comments

ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "Q 28" USING DIGITAL LEVELS FOR JOB # BB0407.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170026A	11/13/2012	AHTD	CRAWFORD	8th STRE	BB0407, 03D04, 040721

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	123,832.0734	0.0030
Easting (M)	188,503.5027	0.0030
Elevation (M)*	123.986	
Northing (SFT)	406,272.3941	
Easting (SFT)	618,448.5751	
Elevation (SFT)*	406.778	

Convergence Angle	-1	21	19.5477704
Scale Factor			0.999939682
Elevation Adjust. Factor			0.9999805429
Combined Adjust. Factor			0.9999202261

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	25	37.1201088
Longitude	94	19	45.5562660
Ellipsoid Height:			94.220
Grid Northing (Meters)			123,832.0720
Grid Easting (Meters)			188,503.4980

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	25	37.1201556	
Longitude	94	19	45.5560788	
Ellipsoid Height (M):			94.126	0.0080
Geoid Height (M):			-29.858	0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 64, NORTHEAST OF FORT SMITH, GO WEST ON HIGHWAY 64 0.6 MILES TO SOUTH 28th STREET AND TURN LEFT (SOUTH) AND GO 1.0 MILES TO THE MARK ON THE LEFT, 24.2 FEET SOUTH OF THE CENTERLINE OF A CONC DRIVE AND 38 FEET EAST OF THE CENTERLINE OF 28th STREET. THE MARK IS A STANDARD 2 1/2 CAP STAMPED "170026A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIBER OPTIC CABLE MARKER	351	19.35	63.5
MK # 2	COMBINATION POLE	189	30.08	98.7
MK # 3				

AZ Mark Station	170026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (ARFY)
Ref Mon # 2	ARHR (OKHV)
Ref Mon # 3	ARLR, SAL5 (ARRS)

Comments

ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "Q 28" USING DIGITAL LEVELS FOR JOB # BB0407.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170027	11/4/2015	AHTD	CRAWFORD	59	03D04, 040721, 040872

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,996.6663	0.0030
Easting (M)	186,421.6610	0.0030
Elevation (M)*	133.882	
Northing (SFT)	410,093.2294	
Easting (SFT)	611,618.3995	
Elevation (SFT)*	439.245	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	26	13.2939384	
Longitude	94	21	9.1701144	
Ellipsoid Height (M):	104.045			0.0080
Geoid Height (M):	-29.837			0.0080

Convergence Angle	-1	22	8.2027048
Scale Factor	0.999939219		
Elevation Adjust. Factor	0.9999789900		
Combined Adjust. Factor	0.9999182103		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 (MAIN STREET) AND FAYETTEVILLE ROAD (HIGHWAY 59), IN VAN BUREN, GO NORTH FROM MAIN STREET ON FAYETTEVILLE ROAD 100 FEET TO THE MARK ON THE RIGHT, 36.6 FEET EAST OF THE CENTERLINE OF FAYETTIVILLE ROAD, 9.4 FEET NORTH OF THE NORTH RR RAIL, AND 8.5 EAST OF THE EAST EDGE OF THE SIDEWALK. THE MARK IS A STANDARD 2 1/2 IN CAP STAMPED "170027 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD SIGNAL POLE	179	26.90	88.3
MK # 2	MANHOLE	338	33.60	110.2
MK # 3	SOUTHWEST CORNER OF RR CONTROL BOX	51	28.00	91.9

AZ Mark Station	170006A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, SAL5

Comments

ELEV. BY S5112 IN NOV. 2015 FOR JOB # 040721 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM R 28. THIS MARK REPLACES GPS # 170006 THAT WAS FOUND DESTROYED BY S5112 IN NOV. 2015.
**********UPDATED ELEV. IN SEPT. 2021 FOR JOB #040872. S5103 RAN DIGITAL LEVELS FROM 1ST ORDER NGS PUBLISHED BM R 28. PREVIOUS ELEV. FROM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170028	2/13/2017	AHTD	Crawford	US-71	040684

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	135,247.1553	0.0020
Easting (M)	198,620.4190	0.0020
Elevation (M)*	243.636	

Northing (SFT)	443,723.3753	
Easting (SFT)	651,640.4913	
Elevation (SFT)*	799.330	

Convergence Angle	-1	17	32.1550328
Scale Factor	0.999936350		
Elevation Adjust. Factor	0.9999617670		
Combined Adjust. Factor	0.9998981194		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	31	55.0167312
Longitude	94	13	14.7791784
Ellipsoid Height (M):	214.343	0.0030	
Geoid Height (M):	-29.278	0.0030	

Location Description

FROM JCT OF US-71 & SR-282 OFF RUDY EXIT GO S ON US-71 0.4MI TO STA ON L. 48' E OF CTR OF US-71. 42' S OF CTR OF LOVE RD. STA IS A 2 1/2" ALUM CAP STAMPED "170028 2017" SET BELOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	24	3.96	13.0
MK # 2	GAS METER	170	6.71	22.0
MK # 3	NW COR OF BU	153	20.73	68.0

AZ Mark Station	170028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170028-1	2/23/2017	AHTD	CRAWFORD	N CLUB	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	116,577.1323	0.0010
Easting (M)	192,790.2802	0.0010
Elevation (M)*	121.465	

Northing (SFT)	382,470.1416	
Easting (SFT)	632,512.7776	
Elevation (SFT)*	398.508	

Convergence Angle	-1	19	36.8053548
Scale Factor	0.999943383		
Elevation Adjust. Factor	0.9999809385		
Combined Adjust. Factor	0.9999243226		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	21	45.0206100
Longitude	94	16	48.9921168
Ellipsoid Height (M):	91.422		0.0020
Geoid Height (M):	-30.035		0.0020

Location Description

TO REACH THE STATION MARK FROM STATE HIGHWAY 59 AND STATE HIGHWAY 22, IN BARLING, GO NORTH ON HIGHWAY 59 3.4 MILES TO GUN CLUB ROAD/LEVEE ROAD AND TURN RIGHT (EAST) AND GO 1.3 MILES TO THE MARK ON THE RIGHT, SOUTH 24 FEET OF THE CENTERLINE OF THE ROAD, 4.5 FEET NORTH OF A 3 STRAN BARBWIRE FENCE AND NORTH 4.5 FEET OF A WITNESS POST.THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 170028" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	170008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

STAMPED 170028 (already a 170028 on Job # 040684)
**********3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
**********PUBLISH

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170028A	2/13/2017	AHTD	Crawford	US-71	040684

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	135,737.6788	0.0020
Easting (M)	198,612.5646	0.0020
Elevation (M)*	255.423	
Northing (SFT)	445,332.7012	
Easting (SFT)	651,614.7224	
Elevation (SFT)*	837.999	

Convergence Angle	-1	17	32.5919801	
Scale Factor	0.999936283			
Elevation Adjust. Factor	0.9999599175			
Combined Adjust. Factor	0.9998962030			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	32	10.9239324	
Longitude	94	13	15.5300772	
Ellipsoid Height (M):	226.150			0.0030
Geoid Height (M):	-29.257			0.0030

Location Description

FROM JCT OF US-71 & SR-282 OFF RUDY EXIT GO S ON US-71 0.1MI TO STA ON R. 55' W OF CTR OF US-71. 24' S OF DW. IN FRONT OF TELEPHONE BU. STA IS A 2 1/2" ALUM CAP STAMPED "170028A 2017" SET BELOW SURFACE.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CP	197	10.67	35.0
MK # 2	SE COR OF TELEPHONE BU	313	20.12	66.0
MK # 3	CP	4	24.99	82.0

AZ Mark Station	170028-1
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 311 BY S5112 IN MARCH 2017 FOR JOB # 040684. U 311 PUBLISHED ELEV. WAS VERIFIED BY CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARFY, ARFS & ARHR IN A TEST STATIC GPS NETWORK ADJUSTMENT AND MISSED THE PUBLISHED ELEV. BY +0.0113'

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170029	2/23/2017	AHTD	CRAWFORD	STVILLE	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	118,082.1466	0.0010
Easting (M)	194,677.5219	0.0010
Elevation (M)*	121.183	
Northing (SFT)	387,407.8426	
Easting (SFT)	638,704.5031	
Elevation (SFT)*	397.580	

Convergence Angle	-1	18	54.1102879
Scale Factor			0.999942475
Elevation Adjust. Factor			0.9999809828
Combined Adjust. Factor			0.9999234589

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	22	35.2566336	
Longitude	94	15	35.6201784	
Ellipsoid Height (M):	91.209			0.0020
Geoid Height (M):	-29.964			0.0020

Location Description

TO REACH THE STATION MARK FROM STATE HIGHWAY 59 AND STATE HIGHWAY 22, IN BARLING, GO NORTH ON HIGHWAY 59 3.4 MILES TO GUN CLUB ROAD/LEVEE ROAD AND TURN RIGHT (EAST) AND GO 2.5 MILES TO WESTVILLE ROAD AND TURN LEFT (NORTH) AND GO 1 MILE TO THE MARK ON THE LEFT, WEST 13.5 FEET OF THE CENTERLINE OF THE ROAD AND WEST 1 FOOT OF A WITNESS POST.THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 170029" ON TOP OF A 4 FOOT REBAR DRIVEN 1 FOOT BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	170029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
**********PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170029A	2/23/2017	AHTD	CRAWFORD	STVILLE	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	118,497.8380	0.0010
Easting (M)	194,691.0366	0.0010
Elevation (M)*	120.880	
Northing (SFT)	388,771.6568	
Easting (SFT)	638,748.8426	
Elevation (SFT)*	396.586	

Convergence Angle	-1	18	54.0187288	
Scale Factor			0.999942242	
Elevation Adjust. Factor			0.9999810304	
Combined Adjust. Factor			0.9999232735	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	22	48.7521840	
Longitude	94	15	35.4628332	
Ellipsoid Height (M):			90.921	0.0020
Geoid Height (M):			-29.950	0.0020

Location Description

TO REACH THE STATION MARK FROM STATE HIGHWAY 59 AND STATE HIGHWAY 22, IN BARLING, GO NORTH ON HIGHWAY 59 3.4 MILES TO GUN CLUB ROAD/LEVEE ROAD AND TURN RIGHT (EAST) AND GO 2.5 MILES TO WESTVILLE ROAD AND TURN LEFT (NORTH) AND GO 1.25 MILE TO THE MARK ON THE LEFT, WEST 43 FEET OF THE CENTERLINE OF THE ROAD AND WEST 9.8 FEET OF A WITNESS POST.THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 170029A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY ANCHOR	120	22.10	72.5
MK # 2	GUY ANCHOR	92	2.89	9.5
MK # 3	GAS VLAVE	103	19.69	64.6

AZ Mark Station	170029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
**********PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170030	2/23/2017	AHTD	CRAWFORD	)RNHILL	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	120,040.3749	0.0010
Easting (M)	197,194.8980	0.0010
Elevation (M)*	118.095	
Northing (SFT)	393,832.4633	
Easting (SFT)	646,963.5945	
Elevation (SFT)*	387.449	

Convergence Angle	-1	17	57.1109144	
Scale Factor	0.999941382			
Elevation Adjust. Factor	0.9999814674			
Combined Adjust. Factor	0.9999228505			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	23	40.6472820
Longitude	94	13	57.6661332
Ellipsoid Height (M):	88.214	0.0020	
Geoid Height (M):	-29.869	0.0020	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 4.35 MILES TO THORNHILL ROAD AND TURN LEFT (SOUTH) AND GO 2.5 MILES TO THE MARK ON THE RIGHT, WEST 15.4 FEET OF THE CENTERLINE OF THE ROAD, 97.3 FEET NORTH OF THE NORTH END OF A BRIDGE AND NORTH 3 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2017 170030" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF GUARD RAIL	171	0.90	3.0
MK # 2				
MK # 3				

AZ Mark Station	ADS 1001
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
**********PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170031	2/23/2017	AHTD	CRAWFORD	ELM BLV	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	122,789.1411	0.0010
Easting (M)	197,744.4467	0.0010
Elevation (M)*	132.569	
Northing (SFT)	402,850.7071	
Easting (SFT)	648,766.5722	
Elevation (SFT)*	434.937	

Convergence Angle	-1	17	45.8752359
Scale Factor			0.999940047
Elevation Adjust. Factor			0.9999791960
Combined Adjust. Factor			0.9999192443

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	25	10.2244548	
Longitude	94	13	38.3574972	
Ellipsoid Height (M):	102.774			0.0030
Geoid Height (M):	-29.770			0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 4.35 MILES TO THORNHILL ROAD AND TURN LEFT (SOUTH) AND GO 0.75 MILES TO EAST ELM BLVD AND TURN LEFT (EAST) AND GO 0.25 MILES TO THE MARK ON THE RIGHT, SOUTH 20.5 FEET OF THE CENTERLINE OF THE ROAD, AND SOUTH 20.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170031 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	55	2.13	7.0
MK # 2	COMBINATION POLE	165	5.91	19.4
MK # 3	GAS METER	329	17.03	55.9

AZ Mark Station	170031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
**********PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170031A	2/23/2017	AHTD	CRAWFORD	ELM BLV	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	122,765.9145	0.0010
Easting (M)	198,145.4081	0.0010
Elevation (M)*	131.937	
Northing (SFT)	402,774.5045	
Easting (SFT)	650,082.0597	
Elevation (SFT)*	432.865	

Convergence Angle	-1	17	36.6164257
Scale Factor	0.999940053		
Elevation Adjust. Factor	0.9999792951		
Combined Adjust. Factor	0.9999193494		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	25	9.7649580
Longitude	94	13	22.4461308
Ellipsoid Height (M):	102.145		0.0020
Geoid Height (M):	-29.766		0.0020

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 4.35 MILES TO THORNHILL ROAD AND TURN LEFT (SOUTH) AND GO 0.75 MILES TO EAST ELM BLVD AND TURN LEFT (EAST) AND GO 0.50 MILES TO THE MARK ON THE RIGHT, SOUTH 22 FEET OF THE CENTERLINE OF EAST ELM BLVD, 17 FEET WEST OF THE CENTERLINE OF ALMA DR AND WAST 6.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "170031A 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	285	2.16	7.1
MK # 2	COMBINATION POLE WITH LIGHT	34	19.11	62.7
MK # 3				

AZ Mark Station	170031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
**********PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170032	3/2/2017	AHTD	CRAWFORD	162	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	126,146.3289	0.0010
Easting (M)	198,684.7671	0.0010
Elevation (M)*	123.328	

Northing (SFT)	413,865.0807	
Easting (SFT)	651,851.6067	
Elevation (SFT)*	404.617	

Convergence Angle	-1	17	25.9342869
Scale Factor	0.999938668		
Elevation Adjust. Factor	0.9999806463		
Combined Adjust. Factor	0.9999193154		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	26	59.8242552
Longitude	94	13	4.0887588
Ellipsoid Height (M):	93.663	0.0020	
Geoid Height (M):	-29.646	0.0020	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 FOR 2.4 MILES TO THE MARK ON THE LEFT, 27 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 181 FEET NORTH OF THE NORTH END OF A BRIDGE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 170032" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF GUARD RAIL	235	1.22	4.0
MK # 2				
MK # 3				

AZ Mark Station	170017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST ORDER NGS BM L 28 MONUMENTED BY USC & GS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170033	2/13/2018	ARDOT	CRAWFORD	I-40	040714, 040872

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	127,851.9023	0.0040
Easting (M)	185,993.3323	0.0040
Elevation (M)*	158.190	
Northing (SFT)	419,460.7828	
Easting (SFT)	610,213.1244	
Elevation (SFT)*	518.994	

Convergence Angle	-1	22	19.6598536	
Scale Factor	0.999938175			
Elevation Adjust. Factor	0.9999751755			
Combined Adjust. Factor	0.9999133520			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	27	45.5856300
Longitude	94	21	28.8593496
Ellipsoid Height (M):	128.465	0.0070	
Geoid Height (M):	-29.727	0.0070	

Location Description

THE STATION MARK IS LOCATED IN THE SW COR OF OVERPASS OVER HWY. 59 ON I-40 IN VAN BUREN. 8.1' S OF E-BOUND PAVEMENT EDGE. THE MARK IS A STANDARD 2½" CAP STAMPED "170033 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF GUARD RAIL	83	13.31	43.7
MK # 2				
MK # 3				

AZ Mark Station	170005A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM J 11 BY S5112 IN MARCH 2018 FOR JOB #040714 AND VERIFIED USING NGS 1ST ORDER BM Q 28 IN STATIC NETWORK ADJ.
**********UPDATED ELEV. IN SEPT. 2021 FOR JOB #040872. S5103 RAN DIGITAL LEVELS FROM 1ST ORDER NGS PUBLISHED BM R 28. PREVIOUS ELEV. FROM 1ST ORDER BM J 11 WAS 518.9919

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170034	11/11/2018	AHTD	CRAWFORD	SR-220	040779

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	149,086.8943	0.0020
Easting (M)	187,290.1277	0.0010
Elevation (M)*		

Northing (SFT)	489,129.2524	
Easting (SFT)	614,467.6940	
Elevation (SFT)*		

Convergence Angle	-1	22	1.4313059
Scale Factor	0.999936680		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	35	39	15.4459152
Longitude	94	20	57.5333916
Ellipsoid Height (M):	190.249	0.0050	
Geoid Height (M):	-28.906	0.0050	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-59 AND SR-220 N OF VAN BUREN, GO E ON SR-220 5.15 MILES TO THE STATION ON RIGHT. 30.2' SE OF THE C/L OF SR-220. THE MARK IS A STANDARD 2½" CAP STAMPED "170034 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" CMP	243	9.88	32.4
MK # 2	FENCE CORNER	283	21.58	70.8
MK # 3				

AZ Mark Station	170034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV, ARFS

Comments

STATIC GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARFY, ARFS & ARRV and ON 2ND ORDER NGS BM's B 28 & Z 311 DURING SIMULTANEOUS OBSERVATIONS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170034A	11/11/2018	AHTD	CRAWFORD	SR-220	040779

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	149,460.6869	0.0020
Easting (M)	187,563.2285	0.0010
Elevation (M)*		

Northing (SFT)	490,355.6036	
Easting (SFT)	615,363.6922	
Elevation (SFT)*		

Convergence Angle	-1	21	55.3210648
Scale Factor	0.999936755		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	35	39	27.7827012	
Longitude	94	20	47.0328756	
Ellipsoid Height (M):	192.474			0.0050
Geoid Height (M):	-28.890			0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-59 AND SR-220 N OF VAN BUREN, GO E ON SR-220 5.35 MILES TO SHAMROCK LANE, TAKE SHAMROCK LANE 0.09 MILES THE STATION ON LEFT. 14.0' NW OF THE C/L OF SHAMROCK LANE. THE MARK IS A STANDARD 2½" CAP STAMPED "170034A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" BLACK WALNUT	210	21.49	70.5
MK # 2				
MK # 3				

AZ Mark Station	170034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV, ARFS

Comments

STATIC GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARFY, ARFS & ARRV and ON 2ND ORDER NGS BM's B 28 & Z 311 DURING SIMULTANEOUS OBSERVATIONS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170035	11/4/2019	ARDOT	CRAWFORD	64	040788

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	130,999.3793	0.0020
Easting (M)	205,245.2266	0.0020
Elevation (M)*		

Northing (SFT)	429,787.1303	
Easting (SFT)	673,375.3809	
Elevation (SFT)*		

Convergence Angle	-1	14	57.0227856
Scale Factor			0.999937142
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	29	41.9813556	
Longitude	94	8	48.1827192	
Ellipsoid Height (M):			99.685	0.0060
Geoid Height (M):			-29.430	0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 6.1 MILES TO THE MARK ON THE RIGHT, NORTH 40' OF THE C/L OF THE HIGHWAY AND 35.6' EAST OF THE C/L OF HORIZON LN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170035 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	62	6.40	21.0
MK # 2	CENTER OF SIGN "ESTATES"	185	4.30	14.1
MK # 3	SS MANHOLE	295	18.90	62.0

AZ Mark Station	170035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170035A	11/4/2019	ARDOT	CRAWFORD	64	040788

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	130,949.4194	0.0020
Easting (M)	205,703.8851	0.0020
Elevation (M)*		
Northing (SFT)	429,623.2201	
Easting (SFT)	674,880.1630	
Elevation (SFT)*		

Convergence Angle	-1	14	46.4102981
Scale Factor	0.999937152		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	29	40.6846572	
Longitude	94	8	29.9450436	
Ellipsoid Height (M):	103.261			0.0060
Geoid Height (M):	-29.427			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 5.8 MILES TO THE MARK ON THE LEFT, SOUTH 29' OF THE C/L OF THE HIGHWAY AND 14.6' EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170035A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/ 3 GUYS & LIGHT	244	14.33	47.0
MK # 2	CENTER OF GATE	216	8.84	29.0
MK # 3				

AZ Mark Station	170035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170036	11/4/2019	ARDOT	CRAWFORD	64	040788

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	132,589.5907	0.0020
Easting (M)	211,329.0943	0.0020
Elevation (M)*		

Northing (SFT)	435,004.3488	
Easting (SFT)	693,335.5369	
Elevation (SFT)*		

Convergence Angle	-1	12	37.3600959
Scale Factor			0.999936759
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	35	30	37.8074268
Longitude	94	4	48.1708632
Ellipsoid Height (M):	109.446		0.0050
Geoid Height (M):	-29.313		0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 1.85 MILES TO THE MARK ON THE RIGHT, NORTH 31.5' OF THE C/L OF THE HIGHWAY AND 15.4' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170036 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	56		
MK # 2	COMBINATION POLE	279	26.82	88.0
MK # 3				

AZ Mark Station	170036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170036A	11/4/2019	ARDOT	CRAWFORD	64	040788

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	132,572.3118	0.0020
Easting (M)	211,720.6737	0.0020
Elevation (M)*		
Northing (SFT)	434,947.6596	
Easting (SFT)	694,620.2436	
Elevation (SFT)*		

Convergence Angle	-1	12	28.3108280
Scale Factor	0.999936761		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	35	30	37.5149916
Longitude	94	4	32.6195976
Ellipsoid Height (M):	101.418	0.0050	
Geoid Height (M):	-29.310	0.0050	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO WEST ON HIGHWAY 64 1.6 MILES TO THE MARK ON THE RIGHT, NORTH 33' OF THE C/L OF THE HIGHWAY, NORTH 4.7' OF THE SOUTH SIDE OF A RETAINING WALL AND 15.6' EAST OF THE CENTER OF THE STEPS LEADING INTO COL JACKSON PLEASANT KING CEMETERY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170036A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	75	11.30	37.1
MK # 2	ALLIE MCBRIDE HEAD STONE	324	3.57	11.7
MK # 3				

AZ Mark Station	170036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170037	11/4/2019	ARDOT	CRAWFORD	64	040788

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	131,625.7760	0.0020
Easting (M)	214,976.0982	0.0020
Elevation (M)*		
Northing (SFT)	431,842.2334	
Easting (SFT)	705,300.7488	
Elevation (SFT)*		

Convergence Angle	-1	11	12.6957370
Scale Factor	0.999936948		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	35	30	9.0148356
Longitude	94	2	22.6742388
Ellipsoid Height (M):	92.339	0.0060	
Geoid Height (M):	-29.311	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO EAST ON HIGHWAY 64 0.65 MILES TO THE MARK ON THE LEFT, NORTH 20.4' OF THE C/L OF THE HIGHWAY AND 12.3' NORTHWEST OF THE NORTHWEST CORNER OF A BRIDGE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170037 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	170037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170037A	11/4/2019	ARDOT	CRAWFORD	64	040788

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	131,627.2256	0.0020
Easting (M)	214,459.7416	0.0020
Elevation (M)*		

Northing (SFT)	431,846.9893	
Easting (SFT)	703,606.6689	
Elevation (SFT)*		

Convergence Angle	-1	11	24.6170598
Scale Factor	0.999936950		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	35	30	8.7143256
Longitude	94	2	43.1611620
Ellipsoid Height (M):	91.340	0.0060	
Geoid Height (M):	-29.317	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 215, IN MULBERRY, GO EAST ON HIGHWAY 64 0.35 MILES TO THE MARK ON THE RIGHT, SOUTH 23.6' OF THE C/L OF THE HIGHWAY AND 120' EAST OF THE CENTER OF A HEADWALL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "170037A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	127	18.59	61.0
MK # 2				
MK # 3				

AZ Mark Station	170037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

STATIC GPS DERIVED ELEVATION IS BASED ON CONSTRAINTS ON NGS 1ST ORDER BM U 311 AND ARDOT CORS SITES ARFS, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170038	9/12/2022	ARDOT	CRAWFORD	59	040885

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	129,574.8561	0.0010
Easting (M)	186,230.4010	0.0010
Elevation (M)*	186.238	

Northing (SFT)	425,113.5071	
Easting (SFT)	610,990.9073	
Elevation (SFT)*	611.014	

Convergence Angle	-1	22	15.1413093
Scale Factor	0.999937638		
Elevation Adjust. Factor	0.9999707741		
Combined Adjust. Factor	0.9999084139		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	28	41.6623692
Longitude	94	21	21.0941820
Ellipsoid Height (M):	156.534	0.0060	
Geoid Height (M):	-29.687	0.0060	

Location Description

TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 1.05 MILES TO THE STATION ON THE RIGHT, THE STATION IS 20.4FT E OF THE EP OF HWY 59. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170038 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWERPOLE	209	10.30	33.8
MK # 2	STORM SEWER MANHOLE	272	15.20	49.9
MK # 3				

AZ Mark Station	170038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV, OKMU

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170038A	9/12/2022	ARDOT	CRAWFORD	59	040885

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	129,876.0903	0.0010
Easting (M)	186,218.2595	0.0010
Elevation (M)*	171.713	

Northing (SFT)	426,101.8063	
Easting (SFT)	610,951.0730	
Elevation (SFT)*	563.362	

Convergence Angle	-1	22	15.5878783
Scale Factor	0.999937552		
Elevation Adjust. Factor	0.9999730533		
Combined Adjust. Factor	0.9999106070		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	28	51.4249716
Longitude	94	21	21.8616156
Ellipsoid Height (M):	142.024	0.0060	
Geoid Height (M):	-29.675	0.0060	

Location Description

TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 1.25 MILES TO THE STATION ON THE LEFT, THE STATION IS 31.9FT W OF THE CL OF HWY 59. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170038A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TRAFFIC SIGNAL POLE	24	10.00	32.8
MK # 2	MAILBOX	203	18.60	61.0
MK # 3	SERVICE POLE	138	27.80	91.2

AZ Mark Station	170038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV, OKMU

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170039	9/12/2022	ARDOT	CRAWFORD	59	040885

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	132,233.0463	0.0010
Easting (M)	186,161.7766	0.0010
Elevation (M)*	236.404	
Northing (SFT)	433,834.5861	
Easting (SFT)	610,765.7621	
Elevation (SFT)*	775.601	

Convergence Angle	-1	22	18.1939098	
Scale Factor	0.999936956			
Elevation Adjust. Factor	0.9999629019			
Combined Adjust. Factor	0.9998998603			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	30	7.8405408
Longitude	94	21	26.3401092
Ellipsoid Height (M):	206.805	0.0060	
Geoid Height (M):	-29.576	0.0060	

Location Description

TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 2.6 MILES TO SCOTTS FARM DRIVE. GO WEST/LEFT ON SCOTTS FARM DRIVE FOR 0.2 MILES TO SCOTTS FARM LOOP. GO RIGHT/NORTH FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS APPROXIMATELY 350FT. EAST OF THE ROAD. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170039 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AOG GAS UM	138	16.20	53.1
MK # 2	8FT BRICK PILLAR	7	3.00	9.8
MK # 3				

AZ Mark Station	170039A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV, OKMU

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
170039A	9/12/2022	ARDOT	CRAWFORD	59	040885

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	132,655.2042	0.0010
Easting (M)	186,373.2572	0.0010
Elevation (M)*	234.478	

Northing (SFT)	435,219.6158	
Easting (SFT)	611,459.5947	
Elevation (SFT)*	769.283	

Convergence Angle	-1	22	13.5451589
Scale Factor	0.999936862		
Elevation Adjust. Factor	0.9999632041		
Combined Adjust. Factor	0.9999000684		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	30	21.6994788
Longitude	94	21	18.3511800
Ellipsoid Height (M):	204.901	0.0060	
Geoid Height (M):	-29.555	0.0060	

Location Description

TO REACH FROM THE JCT. OF I-40 AND HWY 59 IN VAN BUREN, HEAD NORTH ON HWY 59 FOR 3.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 34.1FT W OF THE CL OF HWY 59, AND 15.8FT NE OF A WATER VALVE. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "170039A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FOC UM	126	1.95	6.4
MK # 2	POWERPOLE	2	26.30	86.3
MK # 3				

AZ Mark Station	170039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV, OKMU

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPT. 2022 FOR JOB #040885 FROM TBM #903 FROM JOB #040872 WHICH IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BM R 28

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
178 FSGIS	1/1/1994	Y OF FORT SM	SEBASTIAN	71	001747

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,223.3852	
Easting (M)	185,248.0640	
Elevation (M)*	155.409	
Northing (SFT)	345,220.3896	
Easting (SFT)	607,768.0233	
Elevation (SFT)*	509.871	

Convergence Angle	-1	22	24.3376704
Scale Factor	0.999951993		
Elevation Adjust. Factor	0.9999756119		
Combined Adjust. Factor	0.9999276060		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	15	30.9287520
Longitude	94	21	36.8982288
Ellipsoid Height (M):	125.052		
Geoid Height (M):	-30.349		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-540, US HIGHWAY 71B AND US HIGHWAY 71, LOCATED ON THE SOUTH SIDE OF FORT SMITH, GO SOUTHEAST ON US HIGHWAY 71 FOR 7.05 KM (4.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.57 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF US HIGHWAY 71 AND 0.39 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 102mm BRASS CAP SET ON TOP OF A 203mm ROUND CONCRETE MONUMENT STAMPED "CITY OF FORT SMITH MON 178 RLS MONUMENTED 1994" Used as SU 101 in job 001747

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	L 298
Geodetic Azimuth	125 38 44.17402
Grid Azimuth	127 01 08.46964

Area Reference Monuments (used for Processing)

Ref Mon # 1	FS 2
Ref Mon # 2	Q 299
Ref Mon # 3	GAYLOR

Comments

THE MONUMENT IS PART OF THE FORT SMITH GEOGRAPHIC INFORMATION SYSTEM (FSGIS).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180001	4/16/1998	AHTD	CRITTENDEN	I40	B0108,110635,110651,110650

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	94,313.4713	0.0010
Easting (M)	565,201.1318	0.0020
Elevation (M)*	64.884	0.0008
Northing (SFT)	309,426.7804	
Easting (SFT)	1,854,330.7132	
Elevation (SFT)*	212.872	

Convergence Angle	1	3	19.1765673
Scale Factor			0.999961941
Elevation Adjust. Factor			0.9999898178
Combined Adjust. Factor			0.9999517591

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	10	11.0569440
Longitude	90	11	11.0736960
Ellipsoid Height:			37.636
Grid Northing (Meters)			94,313.4715
Grid Easting (Meters)			565,201.1299

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	10	11.0569368	
Longitude	90	11	11.0736204	
Ellipsoid Height (M):			37.575	0.0010
Geoid Height (M):			-27.314	0.0010

Location Description

THE STATION IS LOCATED IN THE FRONT LAWN OF THE RESIDENT ENGINEER OFFICE IN WEST MEMPHIS. THE STATION IS 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST, 8.15 METERS SOUTH OF THE SOUTH CORNER OF THE RESIDENT ENGINEER OFFICE BUILDING, 8.80 METERS WEST-NORTHWEST OF THE CENTER OF A PAVED ENTRANCE TO OFFICE AND 17.00 METERS NORTH-NORTHEAST OF THE CENTER OF THE FRONTAGE ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180001 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FLAG POLE	313	18.25	59.9
MK # 2	0.48 METER ASH TREE	81	22.70	74.5
MK # 3	EAST END OF A 0.70 METER CMP	282	45.60	149.6

AZ Mark Station	180001A
Geodetic Azimuth	277 09 10.53448
Grid Azimuth	276 05 51.40924

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB (DAWSEY)
Ref Mon # 2	AROC (MEMPHIS 2 CORS)
Ref Mon # 3	ARWM, ARWY (ZME B)

Comments

Digital Levels based on NGS 1st Order Mark N173 and checked on Y173 through jobs 110422-110488-110499. Y173 did not check within 0.20'. Crew S5112-Job 110499, S5103-Job 110422, S5111-Job 110488.**********Superceded elevation:213.078'. New elevation by digital level from 180001A by crew S5113 in June 2017 on job 110651. Position updated by crew S5113 in June 2017 during job 110650.
**********S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180001A	4/16/1998	AHTD	CRITTENDEN	I-55	03,110488,BB0108,110651, 11

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	94,360.1913	0.0010
Easting (M)	564,763.4889	0.0010
Elevation (M)*	69.507	

Northing (SFT)	309,580.0610	
Easting (SFT)	1,852,894.8798	
Elevation (SFT)*	228.041	

Convergence Angle	1	3	9.1339739
Scale Factor			0.999961880
Elevation Adjust. Factor			0.9999890922
Combined Adjust. Factor			0.9999509726

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	10	12.8350848
Longitude	90	11	28.3309908
Ellipsoid Height:			42.443
Grid Northing (Meters)			94,360.2261
Grid Easting (Meters)			564,763.5120

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	10	12.8339688
Longitude	90	11	28.3319268
Ellipsoid Height (M):			42.191 0.0010
Geoid Height (M):			-27.313 0.0010

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE FRONTAGE ROAD AND STATE HIGHWAY 77 (MISSOURI STREET), LOCATED IN WEST MEMPHIS JUST SOUTH OF THE JUNCTION OF I-55 AND STATE HIGHWAY 77, GO WEST OF THE FRONTAGE ROAD FOR 0.56 KM (0.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.445 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF I-55 AND 1.00 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180001A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MILE MARKER 7	111	45.11	148.0
MK # 2	PUNCH IN TOP OF A GUARD RAIL POST	322	17.53	57.5
MK # 3	PUNCH IN TOP OF A GUARD RAIL POST	29	19.44	63.8

AZ Mark Station	180001
Geodetic Azimuth	97 09 00.594602
Grid Azimuth	96 05 51.409239

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB (DAWSEY)
Ref Mon # 2	AROC (MEMPHIS 2 CORS)
Ref Mon # 3	ARWM, ARWY (ZME B)

Comments

Digital Levels based on NGS 1st Order Mark N173 and checked on Y173 through jobs 110422-110488-110499. Y173 did not check within 0.20'. Crew S5112-Job 110499, S5103-Job 110422, S5111-Job 110488.
**********S5103
RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738.
PREVIOUS GEOID HT. WAS -27.191m. SUPERCEDED ELEV. WAS 69.5570m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180002	1/16/1998	AHTD	CRITTENDEN	77	110303,110509, 110870

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	98,031.4617	
Easting (M)	564,803.5521	
Elevation (M)*	66.847	
Northing (SFT)	321,624.8873	
Easting (SFT)	1,853,026.3205	
Elevation (SFT)*	219.314	

Convergence Angle	1	3	11.6069476
Scale Factor			0.999957902
Elevation Adjust. Factor			0.9999895096
Combined Adjust. Factor			0.9999474121

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	12	11.9231208
Longitude	90	11	24.0839160
Ellipsoid Height:			39.671
Grid Northing (Meters)			98,031.4622
Grid Easting (Meters)			564,803.5060

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	12	11.9230776	
Longitude	90	11	24.0820944	
Ellipsoid Height (M):			39.489	
Geoid Height (M):			-27.326	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 77, LOCATED IN MARION, GO SOUTH ON STATE HIGHWAY 77 FOR 1.13 KM (0.70 MI) TO A CURVE TO THE LEFT AND A RAILROAD CROSSING, GO LEFT AND SOUTHEAST ON STATE HIGHWAY 77 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 0.50 METERS SOUTHWEST OF A WITNESS POST, 14.400 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 77AND 50.233 METERS SOUTHEAST OF THE CENTER OF A PAVED ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180002 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	197	22.60	74.1
MK # 2	CENTER OF STORM DRAIN	289	19.08	62.6
MK # 3	WEST END OF HEADWALL=TBM 914	126	78.73	258.3

AZ Mark Station	180002A
Geodetic Azimuth	303 30 22.72678
Grid Azimuth	302 27 11.15480

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB (DAWSEY)
Ref Mon # 2	ARPG (MEMPHIS 2 CORS)
Ref Mon # 3	ARWY, MOKE(ZME B)

Comments

SS ELEV. 66.815m (219.2081 US FT) FROM 3-Wire Levels ran in June 1998 by crew S5101 from 1st Order NGS mark C 5 (Elev.=225.08)
**********UPDATE
D ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER BM D 314 AND 2ND ORDER BM C 5 IN AUGUST 2025 BY CREW S5103 FOR JOB #110870

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180003	4/28/1998	AHTD	CRITTENDEN	38	R10010

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	66,603.7391	
Easting (M)	548,563.6040	
Elevation (M)*	60.891	
Northing (SFT)	218,515.7674	
Easting (SFT)	1,799,745.7575	
Elevation (SFT)*	199.773	

Convergence Angle	0	56	46.1102587
Scale Factor	1.000002127		
Elevation Adjust. Factor	0.9999904443		
Combined Adjust. Factor	0.9999925713		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	55	21.4369212
Longitude	90	22	26.5623600
Ellipsoid Height (M):	33.859		
Geoid Height (M):	-26.988		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND STATE HIGHWAY 147, LOCATED ON THE WEST SIDE OF HORSESHOE LAKE, GO WEST ON STATE HIGHWAY 38 FOR 0.34 KM (0.21 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.598 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 38, 1.00 METERS SOUTH OF A WITNESS POST AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180003 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	79	3.56	11.7
MK # 2	POWER POLE	5	22.69	74.5
MK # 3	NONE			

AZ Mark Station	180003A
Geodetic Azimuth	269 42 48.17469
Grid Azimuth	268 46 02.19847

Area Reference Monuments (used for Processing)

Ref Mon # 1	DAWSEY
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180003A	4/28/1998	AHTD	CRITTENDEN	38	R10010

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	66,588.2151	
Easting (M)	547,842.2120	
Elevation (M)*	61.512	
Northing (SFT)	218,464.8357	
Easting (SFT)	1,797,378.9905	
Elevation (SFT)*	201.811	

Convergence Angle	0	56	29.5680757
Scale Factor	1.000002134		
Elevation Adjust. Factor	0.9999903469		
Combined Adjust. Factor	0.9999924808		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	55	21.3188412
Longitude	90	22	54.9902820
Ellipsoid Height (M):	34.526		
Geoid Height (M):	-26.980		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND STATE HIGHWAY 147, LOCATED ON THE WEST SIDE OF HORSESHOE LAKE, GO WEST ON STATE HIGHWAY 38 FOR 1.07 KM (0.66 MI) TO THE JUNCTION OF EARL BECK ROAD ON THE RIGHT AND THE STATION ON THE LEFT. THE STATION IS 11.10 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 7.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 38 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180003A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	216	9.50	31.2
MK # 2	COMBINATION POLE	235	22.90	75.1
MK # 3	COMBINATION POLE = TBM 931	308	26.20	86.0

AZ Mark Station	180003
Geodetic Azimuth	89 42 31.90057
Grid Azimuth	88 46 02.19847

Area Reference Monuments (used for Processing)

Ref Mon # 1	DAWSEY
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180004	5/18/1999	AHTD	CRITTENDEN	64	0334,Mobie LiDAR-CLS,1105

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,645.4014	
Easting (M)	539,062.6275	
Elevation (M)*	64.314	
Northing (SFT)	346,604.9544	
Easting (SFT)	1,768,574.6371	
Elevation (SFT)*	211.004	

Convergence Angle	0	53	22.2130899
Scale Factor			0.999950335
Elevation Adjust. Factor			0.9999899071
Combined Adjust. Factor			0.9999402426

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	16	33.1198968
Longitude	90	28	16.9620420
Ellipsoid Height:			37.069
Grid Northing (Meters)			105,645.3751
Grid Easting (Meters)			539,062.6235

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	16	33.1207464
Longitude	90	28	16.9618692
Ellipsoid Height (M):	37.084		
Geoid Height (M):	-27.231		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE, GO WEST ON U.S. HIGHWAY 64 FOR 0.23 KM (0.14 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.079 METERS WEST OF THE WEST PAVED ENTRANCE TO A FAMILY DOLLAR STORE, 15.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	59 16.742	16.74	54.9
MK # 2	WEST END CMP	93	19.16	62.8
MK # 3	NONE			

AZ Mark Station	180004A
Geodetic Azimuth	92 22 03.12280
Grid Azimuth	91 28 40.85276

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment. Superceded ELEV. 211.105(64.345m)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180004A	5/18/1999	AHTD	CRITTENDEN	64	110334,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,628.4073	
Easting (M)	539,720.2396	
Elevation (M)*	62.476	
Northing (SFT)	346,549.1996	
Easting (SFT)	1,770,732.1528	
Elevation (SFT)*	204.973	

Convergence Angle	0	53	37.3474546
Scale Factor	0.999950358		
Elevation Adjust. Factor	0.9999901956		
Combined Adjust. Factor	0.9999405541		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	16	32.2372956
Longitude	90	27	50.9532984
Ellipsoid Height (M):	35.195		
Geoid Height (M):	-27.233		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE, GO EAST ON U.S. HIGHWAY 64 FOR 0.43 KM (0.27 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.20 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "180004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	246	23.90	78.4
MK # 2	NONE			
MK # 3	NONOE			

AZ Mark Station	180004
Geodetic Azimuth	272 22 18.14316
Grid Azimuth	271 28 40.85276

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180005	5/18/1999	AHTD	CRITTENDEN	64	110334,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	105,265.4351
Easting (M)	545,786.2295
Elevation (M)*	65.421
Northing (SFT)	345,358.3483
Easting (SFT)	1,790,633.6546
Elevation (SFT)*	214.635

Convergence Angle	0	55	56.8692518
Scale Factor			0.999950748
Elevation Adjust. Factor			0.9999897334
Combined Adjust. Factor			0.9999404819

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	16	17.3235684	
Longitude	90	23	51.1835676	
Ellipsoid Height (M):	38.160			
Geoid Height (M):	-27.239			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE, GO EAST ON U.S HIGHWAY 64 FOR 6.53 KM (4.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.91 METERS NORTH-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 64, 7.70 METERS WEST OF THE CENTER OF SPRINGHILL ROAD AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180005 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE = TBM 9208	292	15.18	49.8
MK # 2	WEST END OF CMP	159	10.28	33.7
MK # 3	NONE			

AZ Mark Station	180005A
Geodetic Azimuth	130 36 32.00605
Grid Azimuth	129 40 35.09368

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180005A	5/18/1999	AHTD	CRITTENDEN	64	110334,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	104,854.9934
Easting (M)	546,281.0233
Elevation (M)*	65.028
Northing (SFT)	344,011.7575
Easting (SFT)	1,792,256.9906
Elevation (SFT)*	213.346

Convergence Angle	0	56	8.1060280
Scale Factor			0.999951107
Elevation Adjust. Factor			0.9999897951
Combined Adjust. Factor			0.9999409026

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	16	3.7447968
Longitude	90	23	31.8730452
Ellipsoid Height (M):	37.777		
Geoid Height (M):	-27.234		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 149, LOCATED ON THE NORTH SIDE OF EARLE GO EAST ON U.S. HIGHWAY 64 FOR 7.16 KM (4.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180005A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	180005
Geodetic Azimuth	310 36 43.15642
Grid Azimuth	309 40 35.09368

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180006	5/18/1999	AHTD	CRITTENDEN	64	110334,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,876.5042	
Easting (M)	548,998.6085	
Elevation (M)*	65.867	
Northing (SFT)	337,520.6642	
Easting (SFT)	1,801,172.9347	
Elevation (SFT)*	216.099	

Convergence Angle	0	57	9.9092855
Scale Factor			0.999952904
Elevation Adjust. Factor			0.9999896634
Combined Adjust. Factor			0.9999425679

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	14	58.0984548
Longitude	90	21	45.6634728
Ellipsoid Height (M):	38.641		
Geoid Height (M):	-27.213		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVLLE, GO WEST ON U.S. HIGHWAY 64 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 106.4 METERS WEST OF THE CENTER OF OIL WELL ROAD, 12.25 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180006 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	180006A
Geodetic Azimuth	269 12 10.30142
Grid Azimuth	268 15 00.43639

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180006A	5/18/1999	AHTD	CRITTENDEN	64	110334,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,862.1536
Easting (M)	548,528.8757
Elevation (M)*	65.530
Northing (SFT)	337,473.5823
Easting (SFT)	1,799,631.8197
Elevation (SFT)*	214.993

Convergence Angle	0	56	59.0926666
Scale Factor			0.999952910
Elevation Adjust. Factor			0.9999897163
Combined Adjust. Factor			0.9999426268

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	14	57.8858964	
Longitude	90	22	4.2519504	
Ellipsoid Height (M):	38.305			
Geoid Height (M):	-27.212			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO WEST ON U.S. HIGHWAY 64 FOR 4.25 KM (2.64 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180006A 1999" SET ON TOP OF AND IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	180006
Geodetic Azimuth	89 11 59.57332
Grid Azimuth	88 15 00.43639

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180007	5/18/1999	AHTD	CRITTENDEN	64	110334,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	100,929.8072
Easting (M)	552,851.2291
Elevation (M)*	67.765
Northing (SFT)	331,133.8758
Easting (SFT)	1,813,812.7408
Elevation (SFT)*	222.326

Convergence Angle	0	58	37.8144325
Scale Factor	0.999954790		
Elevation Adjust. Factor	0.9999893656		
Combined Adjust. Factor	0.9999441561		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	13	52.8316500
Longitude	90	19	14.5975188
Ellipsoid Height (M):	40.555		
Geoid Height (M):	-27.201		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST ON U.S. HIGHWAY 64 FOR 0.60 KM (0.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.60 METERS EAST OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 10.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	180007A
Geodetic Azimuth	118 00 32.08259
Grid Azimuth	117 01 54.22115

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180007A	5/18/1999	AHTD	CRITTENDEN	64	110334,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	100,686.5021
Easting (M)	553,328.0892
Elevation (M)*	68.100
Northing (SFT)	330,335.6323
Easting (SFT)	1,815,377.2393
Elevation (SFT)*	223.425

Convergence Angle	0	58	48.6912675
Scale Factor			0.999955033
Elevation Adjust. Factor			0.9999893130
Combined Adjust. Factor			0.9999443465

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	13	44.6732400	
Longitude	90	18	55.9055592	
Ellipsoid Height (M):	40.899			
Geoid Height (M):	-27.200			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST ON U.S. HIGHWAY 64 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	180007A
Geodetic Azimuth	298 00 42.86529
Grid Azimuth	297 01 54.22115

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180008	12/14/1999	AHTD	CRITTENDEN	64	0337,Mobie LiDAR-CLS,1105

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	98,427.8421	
Easting (M)	555,635.1190	
Elevation (M)*	67.888	
Northing (SFT)	322,925.3453	
Easting (SFT)	1,822,946.2196	
Elevation (SFT)*	222.728	

Convergence Angle	0	59	40.8723151
Scale Factor	0.999957324		
Elevation Adjust. Factor	0.9999893463		
Combined Adjust. Factor	0.9999466708		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	12	30.1003488
Longitude	90	17	26.2318596
Ellipsoid Height (M):	40.700		
Geoid Height (M):	-27.184		

Location Description

TO REACH THE STATION FRON THE JUNCTION OF U.S. HIGHWAYS 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST ON U.S. HIGHWAY 64 FOR 4 59 KM (2.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.60 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 64, 11.00 METERS NORTHEAST OF THE NORTH RAIL AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 633.589 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	180008A
Geodetic Azimuth	117 01 39.61786
Grid Azimuth	116 01 58.68576

Area Reference Monuments (used for Processing)

Ref Mon # 1	MEM 2
Ref Mon # 2	DAWSEY
Ref Mon # 3	180007

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. Superceded ELEV. 222.588(67.845)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180008A	12/14/1999	AHTD	CRITTENDEN	64	110337,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	98,149.7821	
Easting (M)	556,204.3960	
Elevation (M)*	67.921	
Northing (SFT)	322,013.0768	
Easting (SFT)	1,824,813.9225	
Elevation (SFT)*	222.837	

Convergence Angle	0	59	53.8562061
Scale Factor	0.999957620		
Elevation Adjust. Factor	0.9999893411		
Combined Adjust. Factor	0.9999469615		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	12	20.7573804
Longitude	90	17	3.9189012
Ellipsoid Height (M):	40.782		
Geoid Height (M):	-27.183		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 64, 64B AND STATE HIGHWAY 50, LOCATED ON THE NORTH SIDE OF CRAWFORDSVILLE, GO EAST OF U.S. HIGHWAY 64 FOR 5.18 KM (3.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.65 METERS NORTHEAST OF THE NORTH RAIL, 11.40 SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 633.589 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	180008
Geodetic Azimuth	297 01 52.48202
Grid Azimuth	296 01 58.68576

Area Reference Monuments (used for Processing)

Ref Mon # 1	MEM 2
Ref Mon # 2	DAWSEY
Ref Mon # 3	180007

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180010A	12/14/1999	AHTD	CRITTENDEN	54	37,110505,110509,110588,11(

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	98,772.0677	0.0030
Easting (M)	562,693.1573	0.0030
Elevation (M)*	66.378	0.0064
Northing (SFT)	324,054.6921	
Easting (SFT)	1,846,102.4669	
Elevation (SFT)*	217.776	

Convergence Angle	1	2	23.3733834
Scale Factor			0.999957100
Elevation Adjust. Factor			0.9999895832
Combined Adjust. Factor			0.9999466836

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	12	37.2012012
Longitude	90	12	46.9747728
Ellipsoid Height:			39.189
Grid Northing (Meters)			98,772.0241
Grid Easting (Meters)			562,693.0880

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	12	37.2025728
Longitude	90	12	46.9720008
Ellipsoid Height (M):	39.066		0.0060
Geoid Height (M):	-27.313		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-55 AND U.S. HIGHWAY 64, LOCATED ON THE EAST SIDE OF MARION, GO WEST ON U.S. HIGHWAY 64 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT SET IN THE LAWN OF THE JOHN DEERE DEALER. THE STATION IS 14.30 METERS NORTHWEST OF THE CENTER U.S. HIGHWAY 64 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "180010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 529.182 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	63	30.60	100.4
MK # 2	NORTH END OF A HEADWALL	247	14.10	46.3
MK # 3	NONE			

AZ Mark Station	180010
Geodetic Azimuth	73 05 29.429670
Grid Azimuth	72 03 06.004734

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	TN45
Ref Mon # 3	ZME1

Comments

Position and elevation updated in May 2017 by Garver, job 110614, using digital leveling from NGS D 314.
*********SupercededElevation:217.800***** 3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. Superceded ELEV. 217.725(66.363m) 3-wire levels ran by crew S5111 on job 110505 tying into 3-wire data from job 110337 with first order NGS mark C 5 to NGS mark T 173 in

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180012	1/3/2003	AHTD	CRITTENDEN	N/A	88,BB0108,110635,110651, 11

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	91,896.6415	0.0030
Easting (M)	567,804.6751	0.0030
Elevation (M)*	65.378	0.0022
Northing (SFT)	301,497.5647	
Easting (SFT)	1,862,872.5049	
Elevation (SFT)*	214.496	

Convergence Angle	1	4	17.9976570
Scale Factor			0.999964801
Elevation Adjust. Factor			0.9999897401
Combined Adjust. Factor			0.9999545415

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	8	51.0761112
Longitude	90	9	29.9896056
Ellipsoid Height:			38.177
Grid Northing (Meters)			91,896.6481
Grid Easting (Meters)			567,804.6580

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	8	51.0758880	
Longitude	90	9	29.9889360	
Ellipsoid Height (M):			38.031	0.0000
Geoid Height (M):			-27.316	

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF HWY-70 AND INGRAM BLVD. ON THE EASTERN SIDE OF WEST MEMPHIS, GO NORTH ON INGRAM BLVD. FOR ONE BLOCK TO THOMPSON STREET AND THE STATION IN THE NORTHEAST CORNER OF THE INTERSECTION AND IN THE SOUTHWEST CORNER OF THE YARD OF " FIRST CHURCH OF THE NAZERENE " . 12.5 METERS NORTH OF THE CENTER OF THOMPSON STREET, 11.25 METERS EAST OF THE CENTER OF INGRAM BLVD. AND 2.0 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "180012 2003"AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF DROP INLET GRATE	164	6.95	22.8
MK # 2	CENTER OF MANHOLE	238	3.50	11.5
MK # 3				

AZ Mark Station	180012A
Geodetic Azimuth	000 41 11
Grid Azimuth	359 36 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	MEM 2
Ref Mon # 3	480016

Comments

ELEVATION BY 3 WIRE FROM NGS PT N 173 BY S5103 Position and elevation updated by cre S5113 in June 2017 during job 110650.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180012A	1/3/2003	AHTD	CRITTENDEN	N/A	22,110488,BB0108,110720,01

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	92,497.9316	0.0010
Easting (M)	567,800.6356	0.0010
Elevation (M)*	65.850	
Northing (SFT)	303,470.2973	
Easting (SFT)	1,862,859.2520	
Elevation (SFT)*	216.043	

Convergence Angle	1	4	18.1633586
Scale Factor			0.999964090
Elevation Adjust. Factor			0.9999896661
Combined Adjust. Factor			0.9999537565

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	9	10.5867468
Longitude	90	9	29.7049932
Ellipsoid Height:			
Grid Northing (Meters)			92,497.9271
Grid Easting (Meters)			567,800.6150

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	9	10.5868800
Longitude	90	9	29.7041760
Ellipsoid Height (M):	38.508		0.0060
Geoid Height (M):	-27.317		

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF HWY-70 AND INGRAM BLVD. ON THE EASTERN SIDE OF WEST MEMPHIS, GO NORTH ON INGRAM BLVD. FOR 0.50 MILES TO THE STATION IN THE MEDIAN. 8.60 METERS EAST OF THE CENTER OF THE SOUTHBOUND LANE OF INGRAM BLVD., 5.25 METERS WEST OF THE CENTER OF THE NORTHBOUND LANES OF INGRAM BLVD. AND 1.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "180012A 2003"AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	350	6.30	20.7
MK # 2	WATER METER	62	11.80	38.7
MK # 3	WATER METER	141	16.15	53.0

AZ Mark Station	180012
Geodetic Azimuth	180 41 11
Grid Azimuth	179 36 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	MEM 2
Ref Mon # 3	480016

Comments

ELEVATION BY 3 WIRE FROM NGS PT N 173 BY S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180013	1/9/2007	AHTD	CRITTENDEN	70	11800

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	91,646.7011	
Easting (M)	553,098.0550	
Elevation (M)*	64.022	
Northing (SFT)	300,677.5519	
Easting (SFT)	1,814,622.5354	
Elevation (SFT)*	210.046	

Convergence Angle	0	58	39.8484625
Scale Factor	0.999964786		
Elevation Adjust. Factor	0.9999899529		
Combined Adjust. Factor	0.9999547393		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	51.5011344
Longitude	90	19	11.1020160
Ellipsoid Height (M):	36.884		
Geoid Height (M):	-27.109		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO WEST ON HIGHWAY 70 1.5 MILES TO THE STATION MARK ON THE RIGHT, NORTH 18.0 FEET OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180013 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST COR OF BRIDGE	113	2.74	9.0
MK # 2				
MK # 3				

AZ Mark Station	180013A
Geodetic Azimuth	270 55 21
Grid Azimuth	269 56 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSCD
Ref Mon # 2	ARBT
Ref Mon # 3	ZME1

Comments

3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07.
**********MONUMENT NOT FOUND BY S5103 IN MAY 2022. CREW RESET MONUMENT AND CALLED IT 180013 RESET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180013 RESET	5/28/2022	ARDOT	CRITTENDEN	70	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	91,647.5152	0.0010
Easting (M)	553,096.9572	0.0010
Elevation (M)*	63.959	

Northing (SFT)	300,680.2228	
Easting (SFT)	1,814,618.9337	
Elevation (SFT)*	209.839	

Convergence Angle	0	58	39.8235465
Scale Factor	0.999964785		
Elevation Adjust. Factor	0.9999899629		
Combined Adjust. Factor	0.9999547482		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	8	51.5281560
Longitude	90	19	11.1448344
Ellipsoid Height (M):	36.714	0.0040	
Geoid Height (M):	-27.240	0.0040	

Location Description

TO REACH FROM THE JCT. OF HWY 70 AND 50 NEAR LEHI, HEAD EAST ON HWY 70 FOR 0.45 MILES TO THE STATION ON THE LEFT. THE STATION IS 21.3FT N OF THE CL OF HWY 70. THE STATION MARK IS A 2 1/2IN CAP STAMPED "180013RESET 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW BRIDGE CORNER	302	4.05	13.3
MK # 2	W END OF GUARDRAIL	84	19.40	63.6
MK # 3				

AZ Mark Station	180013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180013A	1/9/2007	AHTD	CRITTENDEN	70	110800, 110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	91,646.2429	0.0010
Easting (M)	552,597.2813	0.0010
Elevation (M)*	63.552	

Northing (SFT)	300,676.0486	
Easting (SFT)	1,812,979.5804	
Elevation (SFT)*	208.503	

Convergence Angle	0	58	28.3373130
Scale Factor	0.999964776		
Elevation Adjust. Factor	0.9999900268		
Combined Adjust. Factor	0.9999548031		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	8	51.7623288
Longitude	90	19	30.8837244
Ellipsoid Height:	36.442		
Grid Northing (Meters)	91,646.2191		
Grid Easting (Meters)	552,597.2900		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	8	51.7631064	
Longitude	90	19	30.8840520	
Ellipsoid Height (M):	36.309			0.0040
Geoid Height (M):	-27.237			0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO WEST ON HIGHWAY 70 1.9 MILES TO THE STATION MARK ON THE RIGHT, NORTH 24.3 FEET OF THE CENTER LINE OF THE HIGHWAY ANDNORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180013A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	170	27.40	89.9
MK # 2				
MK # 3				

AZ Mark Station	180013
Geodetic Azimuth	90 55 10
Grid Azimuth	89 56 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB (MSCD)
Ref Mon # 2	AROC (ARBT)
Ref Mon # 3	ARWM, ARWY (ZME1)

Comments

3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07.
**********S5103
RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738.
PREVIOUS GEOID HT. WAS -27.106m. SUPERCEDED ELEV. WAS 63.5763m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180014	1/9/2007	AHTD	CRITTENDEN	70	110800,110524, 110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	91,701.8455	0.0010
Easting (M)	558,400.2509	0.0020
Elevation (M)*	63.997	
Northing (SFT)	300,858.4714	
Easting (SFT)	1,832,018.1565	
Elevation (SFT)*	209.964	

Convergence Angle	1	0	41.7477212
Scale Factor			0.999964830
Elevation Adjust. Factor			0.9999899568
Combined Adjust. Factor			0.9999547872

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	8	50.3038608
Longitude	90	15	41.6168388
Ellipsoid Height:			36.845
Grid Northing (Meters)			91,701.8561
Grid Easting (Meters)			558,400.2500

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	8	50.3035152	
Longitude	90	15	41.6168100	
Ellipsoid Height (M):			36.716	0.0040
Geoid Height (M):			-27.273	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 1.8 MILES TO THE STATION MARK ON THE LEFT, AT THE SOUTHEAST CORNER OF AN ASPHALT PARKING LOT FOT THE AHTD MAINT. YARD AT LEHI, 82.7 FEET EAST OF AN ASPHALT DRIVE AND NORTH 87.6 FEET OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180014 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF 24" CMP	239	20.79	68.2
MK # 2	POWER POLE W/GUY	72	22.25	73.0
MK # 3	10" FORKED TREE	26	14.54	47.7

AZ Mark Station	180014A
Geodetic Azimuth	269 24 10
Grid Azimuth	268 23 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB (MSCD)
Ref Mon # 2	AROC (ARBT)
Ref Mon # 3	ARWM, ARWY (ZME1)

Comments

3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.
**********S5103
RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.142m. SUPERCEDED ELEV. WAS 64.0157m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180014A	1/9/2007	AHTD	CRITTENDEN	70	110800,110524, 110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	91,680.6116	0.0010
Easting (M)	557,642.3743	0.0010
Elevation (M)*	63.936	

Northing (SFT)	300,788.8066	
Easting (SFT)	1,829,531.6897	
Elevation (SFT)*	209.764	

Convergence Angle	1	0	24.3185528
Scale Factor			0.999964839
Elevation Adjust. Factor			0.9999899665
Combined Adjust. Factor			0.9999548058

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	8	50.0464500
Longitude	90	16	11.5692240
Ellipsoid Height:			36.772
Grid Northing (Meters)			91,680.5722
Grid Easting (Meters)			557,642.3700

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	8	50.0477280	
Longitude	90	16	11.5690260	
Ellipsoid Height (M):			36.659	0.0040
Geoid Height (M):			-27.268	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 1.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 26.5 FEET OF THE CENTER LINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180014A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CHAIN LINK FENCE CORNER	177	31.27	102.6
MK # 2				
MK # 3				

AZ Mark Station	180014
Geodetic Azimuth	89 23 53
Grid Azimuth	88 23 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB (MSCD)
Ref Mon # 2	AROC (ARBT)
Ref Mon # 3	ARWM, ARWY (ZME1)

Comments

3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.
**********S5103
RE-TRACKED IN JULY 2022 AND RE-RAN DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 FOR JOB #110738. PREVIOUS GEOID HT. WAS -27.137m. SUPERCEDED ELEV. WAS 69.9386m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180015	1/9/2007	AHTD	CRITTENDEN	147	11800

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	95,688.6351	
Easting (M)	555,530.0880	
Elevation (M)*	64.981	
Northing (SFT)	313,938.4637	
Easting (SFT)	1,822,601.6304	
Elevation (SFT)*	213.191	

Convergence Angle	0	59	37.3632832
Scale Factor	0.999960222		
Elevation Adjust. Factor	0.9999898025		
Combined Adjust. Factor	0.9999500249		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	11	1.2853500
Longitude	90	17	32.2621692
Ellipsoid Height (M):	37.802		
Geoid Height (M):	-27.157		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO NORTH ON HIGHWAY 147 2.5 MILES TO THE STATION MARK ON THE LEFT, 12.4 FEET SOUTH OF A FIELD ENTRANCE, WEST 37.6 FEET OF THE CENTER LINE OF THE HIGHWAY AND NORTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180015 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A 36" CMP	2	0.61	2.0
MK # 2	POER POLE	97	23.74	77.9
MK # 3				

AZ Mark Station	180015A
Geodetic Azimuth	180 46 57
Grid Azimuth	179 47 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSCD
Ref Mon # 2	ARBT
Ref Mon # 3	ZME1

Comments

3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180015A	1/9/2007	AHTD	CRITTENDEN	147	11800

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	94,880.3991	
Easting (M)	555,533.0670	
Elevation (M)*	64.179	
Northing (SFT)	311,286.7760	
Easting (SFT)	1,822,611.4040	
Elevation (SFT)*	210.561	

Convergence Angle	0	59	37.1094224
Scale Factor	0.999961112		
Elevation Adjust. Factor	0.9999899283		
Combined Adjust. Factor	0.9999510407		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	35.0602644
Longitude	90	17	32.6984316
Ellipsoid Height (M):	37.005		
Geoid Height (M):	-27.150		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO NORTH ON HIGHWAY 147 2.0 MILES TO THE STATION MARK ON THE LEFT, 12.0 FEET NORTH OF A FIELD ENTRANCE, WEST 39.4 FEET OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 2.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180015A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A 36" CMP	28	2.44	8.0
MK # 2	POWER POLE W/GUY	77	24.26	79.6
MK # 3				

AZ Mark Station	180015
Geodetic Azimuth	0 46 57
Grid Azimuth	359 47 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSCD
Ref Mon # 2	ARBT
Ref Mon # 3	ZME1

Comments

3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-14-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180016	1/9/2007	AHTD	CRITTENDEN	NA	110800,110505

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	94,489.6381	
Easting (M)	558,957.6160	
Elevation (M)*	65.451	
Northing (SFT)	310,004.7543	
Easting (SFT)	1,833,846.7785	
Elevation (SFT)*	214.733	

Convergence Angle	1	0	55.6951408
Scale Factor			0.999961616
Elevation Adjust. Factor			0.9999897288
Combined Adjust. Factor			0.9999513452

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	20.4337020
Longitude	90	15	17.6480172
Ellipsoid Height (M):	38.266		
Geoid Height (M):	-27.165		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 2.1 MILES TO KUHN ROAD AND TURN LEFT (NORTH) ON KUHN ROAD AND GO 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH OF THE CENTER LINE OF AN ASPHALT TURN IN 11.3 FEET AND AT THE SOUTHEAST CORNER OF AN ASPHALT TURN IN, EAST 59.3 FEET OF THE CENTER LINE OF THE HIGHWAY AND EAST 25.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180016 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF A CMP	264	8.23	27.0
MK # 2	NORTH END OF A CMP	315	11.13	36.5
MK # 3				

AZ Mark Station	180016A
Geodetic Azimuth	183 38 22
Grid Azimuth	182 37 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSCD
Ref Mon # 2	ARBT
Ref Mon # 3	ZME1

Comments

3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180016A	1/9/2007	AHTD	CRITTENDEN	NA	110800,110505

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	93,897.3021	
Easting (M)	558,930.4680	
Elevation (M)*	64.745	
Northing (SFT)	308,061.3986	
Easting (SFT)	1,833,757.7104	
Elevation (SFT)*	212.416	

Convergence Angle	1	0	54.8295710
Scale Factor			0.999962285
Elevation Adjust. Factor			0.9999898396
Combined Adjust. Factor			0.9999521249

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	10	1.2309492	
Longitude	90	15	19.1355084	
Ellipsoid Height (M):	37.543			
Geoid Height (M):	-27.160			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 147 AND STATE HIGHWAY 70, IN LEHI, GO EAST ON HIGHWAY 70 2.1 MILES TO KUHN ROAD AND TURN LEFT (NORTH) ON KUHN ROAD AND GO 1.4 MILES TO THE STATION MARK ON THE LEFT, NORTH OF THE CENTER LINE OF A DIRT TURN IN 37.0 FEET, WEST 43.0 FEET OF THE CENTER LINE OF THE HIGHWAY AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180016A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVRN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A CULVERT	143	11.89	39.0
MK # 2	WELL TEST SITE	317	1.34	4.4
MK # 3				

AZ Mark Station	180016
Geodetic Azimuth	3 38 22
Grid Azimuth	2 37 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSCD
Ref Mon # 2	ARBT
Ref Mon # 3	ZME1

Comments

3-WIRE LEVELS RAN FROM NGS MARK EDMONDSON & EDMONDSON 2 RM 3 BY CREW S5104 ON 1-10-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180017	6/16/2010	AHTD	CRITTENDEN	I-40	110542

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	92,635.7751	
Easting (M)	575,004.5090	
Elevation (M)*	74.943	
Northing (SFT)	303,922.5388	
Easting (SFT)	1,886,493.9599	
Elevation (SFT)*	245.875	

Convergence Angle	1	7	3.8193937
Scale Factor			0.999964090
Elevation Adjust. Factor			0.9999882391
Combined Adjust. Factor			0.9999523296

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	9	10.5929208
Longitude	90	4	45.0224724
Ellipsoid Height (M):	47.717		
Geoid Height (M):	-27.226		

Location Description

TO REACH THE STATION FROM THE SOUTHWEST CORNER OF THE I-40 MISSISSIPPI RIVER BRIDGE GO EAST 295 FEET TO THE MARK ON THE SOUTH SIDE OF THE EAST BOUND LANE OF INTERSTATE 40, SOUTH 4.4 FEET FROM THE EDGE OF THE CONCRETE, NORTH 101.3 OF THE C/L OF A GRAVEL ROAD, AND SOUTH 2.1 FEET FROM THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180017 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	180017A
Geodetic Azimuth	269 54 10
Grid Azimuth	268 47 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, MSB6
Ref Mon # 2	TN42
Ref Mon # 3	C 5

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180017A	6/16/2010	AHTD	CRITTENDEN	I-40	110542

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	92,625.2341	
Easting (M)	574,507.4930	
Elevation (M)*	72.524	
Northing (SFT)	303,887.9555	
Easting (SFT)	1,884,863.3333	
Elevation (SFT)*	237.939	

Convergence Angle	1	6	52.3898465
Scale Factor	0.999964091		
Elevation Adjust. Factor	0.9999886187		
Combined Adjust. Factor	0.9999527102		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	9	10.5650928
Longitude	90	5	4.6642740
Ellipsoid Height (M):	45.301		
Geoid Height (M):	-27.223		

Location Description

TO REACH THE STATION FROM THE SOUTHWEST CORNER OF THE I-40 MISSISSIPPI RIVER BRIDGE GO EAST 1,915 FEET TO THE MARK ON THE SOUTH SIDE OF THE EAST BOUND LANE OF INTERSTATE 40, SOUTH 5.1 FEET FROM THE EDGE OF THE CONCRETE, NORTH 107 FEET FROM THE C/L OF A DITCH, AND NORTH 1.5 FEET FROM THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "180017A 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	180017
Geodetic Azimuth	89 53 59
Grid Azimuth	88 47 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, MSB6
Ref Mon # 2	TN42
Ref Mon # 3	C 5

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180018	10/24/2011	AHTD	CRITTENDEN	147	110557

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,442.9957	
Easting (M)	552,073.0447	
Elevation (M)*	61.898	
Northing (SFT)	227,830.8951	
Easting (SFT)	1,811,259.6475	
Elevation (SFT)*	203.077	

Convergence Angle	0	58	7.6564467
Scale Factor	0.999997214		
Elevation Adjust. Factor	0.9999902863		
Combined Adjust. Factor	0.9999875003		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	56	51.6554124
Longitude	90	20	6.4243464
Ellipsoid Height (M):	34.772		
Geoid Height (M):	-27.161		

Location Description

Starting at the junction of highway 131 and 147 go south east on 131 for 0.25 miles to the station on the right. The station is a standard alum. cap stamped(180018 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot soouth of a witness post and 57 foot south west of the CL of highway 131. Lat.34.5652 Lon. 090.2007

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL of asphault drive	175	8.20	26.9
MK # 2	)ower pole with service	265	23.80	78.1
MK # 3	Power Pole	295	21.30	69.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180018 1	2/9/2012	AHTD	Crittenden	149	110571

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	94,216.0514	
Easting (M)	537,598.7100	
Elevation (M)*	63.131	
Northing (SFT)	309,107.1620	
Easting (SFT)	1,763,771.7677	
Elevation (SFT)*	207.122	

Convergence Angle	0	52	44.4711830
Scale Factor			0.999961527
Elevation Adjust. Factor			0.9999900928
Combined Adjust. Factor			0.9999516202

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	10	23.0151684
Longitude	90	29	21.8217480
Ellipsoid Height (M):	36.070		
Geoid Height (M):	-27.069		

Location Description

Starting at the intersection of highway 149 and the I-40 west bound lanes go north on 149 for 2.8 miles to the station on the right. The station is a standard alum. cap with a 4 foot rebar. LAT.35.1023 LON.90.2922

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	south of the center line of Dixie road	0	8.53	28.0
MK # 2	north of Power pole	185	6.71	22.0
MK # 3	East of centerline of 149	90	12.19	40.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180018A	10/24/2011	AHTD	Crittenden	147	110557

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,417.7550	
Easting (M)	551,303.9882	
Elevation (M)*	62.002	
Northing (SFT)	227,748.0845	
Easting (SFT)	1,808,736.5013	
Elevation (SFT)*	203.418	

Convergence Angle	0	57	50.0124360
Scale Factor			0.999997235
Elevation Adjust. Factor			0.9999902700
Combined Adjust. Factor			0.9999875050

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	56	51.2573496
Longitude	90	20	36.7457712
Ellipsoid Height (M):	34.882		
Geoid Height (M):	-27.153		

Location Description

Starting at the junction of highways 131 and 147 go south west on 147 0.4 miles to the station on the left. The station is a standard alum. cap stamped (180018A 2011) and is set on a 4 foot 5/8" rebar. It is 19 foot south of the CL of highway 147 and 2 foot north of a witness post. Lat.34.5651 Lon.090.2036

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	60	40.50	132.9
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180018A 1	2/9/2012	AHTD	Crittenden	149	110571

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	94,234.6592	
Easting (M)	537,032.9919	
Elevation (M)*	62.762	
Northing (SFT)	309,168.2111	
Easting (SFT)	1,761,915.7409	
Elevation (SFT)*	205.910	

Convergence Angle	0	52	31.4694628
Scale Factor	0.999961496		
Elevation Adjust. Factor	0.9999901508		
Combined Adjust. Factor	0.9999516471		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	10	23.8999728
Longitude	90	29	44.1653460
Ellipsoid Height (M):	35.703		
Geoid Height (M):	-27.068		

Location Description

Starting at the intersection of highway 149 and the west bound lanes of I-40. Go north on 149 for 2.8 miles to dixie road then go west for 0.3 miles to the station on the right. The station is a standard alum. cap with a 4 foot rebar. And is 2 foot South of the witness post. LAT.35.1024 LON.902945

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	north of center line of dixie road	0	5.50	18.0
MK # 2	south of telephone box	5	3.66	12.0
MK # 3	west of field entrance	90	44.20	145.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV DERIVED BY DIGITAL LEVELS FROM AHTD GPS MON. 680013A BY GARVER DURING JOB 110571 IN DEC 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180019	10/24/2011	AHTD	Crittenden	147	110557

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	73,338.7128	
Easting (M)	551,764.7421	
Elevation (M)*	61.001	
Northing (SFT)	240,612.0936	
Easting (SFT)	1,810,248.1580	
Elevation (SFT)*	200.133	

Convergence Angle	0	58	2.0952958
Scale Factor	0.999990640		
Elevation Adjust. Factor	0.9999904271		
Combined Adjust. Factor	0.9999810672		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	58	58.2231468
Longitude	90	20	15.9812448
Ellipsoid Height (M):	33.880		
Geoid Height (M):	-27.155		

Location Description

Starting at the junction of highway 131 and 147 go north on 147 to the junction of 147 and Williford road and the station on the right. The station is a standard alum. cap stamped(180019 2011) and is set on a 4 foot 5/8" rebar. It is 69 foot east of the CL of 147 and 1 foot north of a witness post. Lat.34.5859 Lon.090.2016

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL of Williford Road	0	6.10	20.0
MK # 2	Telephone box	235	11.89	39.0
MK # 3	16" R.C.P.	260	13.10	43.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180019A	10/24/2011	AHTD	Crittenden	147	110557

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	73,261.0938	
Easting (M)	552,288.3323	
Elevation (M)*	61.634	
Northing (SFT)	240,357.4386	
Easting (SFT)	1,811,965.9702	
Elevation (SFT)*	202.210	

Convergence Angle	0	58	14.0761077
Scale Factor	0.999990781		
Elevation Adjust. Factor	0.9999903277		
Combined Adjust. Factor	0.9999811088		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	58	55.4174436
Longitude	90	19	55.3920888
Ellipsoid Height (M):	34.505		
Geoid Height (M):	-27.159		

Location Description

Starting at the junction of highway 147 and Williford road go 0.35 miles east on williford road to the staton on the right. The station is a standard alum. cap stamped (180019A 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot from a witness post and 14 foot from the center line of Williford Road. Lat.34.5556 Lon.090.1955

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	West end of a Head Wall over a double 18" C.M.P	90	0.60	2.0
MK # 2	center of the two culverts	90	1.98	6.5
MK # 3	CL of Williford road	0	4.27	14.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180020	10/24/2011	AHTD	Crittenden	147	110557

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	77,952.7380	
Easting (M)	551,572.9565	
Elevation (M)*	62.327	
Northing (SFT)	255,749.9413	
Easting (SFT)	1,809,618.9415	
Elevation (SFT)*	204.483	

Convergence Angle	0	57	59.4814527
Scale Factor	0.999983339		
Elevation Adjust. Factor	0.9999902190		
Combined Adjust. Factor	0.9999735582		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	1	28.0329276
Longitude	90	20	20.4731628
Ellipsoid Height (M):	35.201		
Geoid Height (M):	-27.155		

Location Description

This station is at the south west corner of the triangle made by the intersection of highway 147 and 50. The station is a standard alum. cap stamped (180020 2011) and is set on a 4 foot 5/8" rebar. It is 50 foot south of the CL of 50 and 2 foot north of a witness post. Lat.350128 Lon.0902021

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL of the South spur of highway 50 and 147	50	18.29	60.0
MK # 2	CL of highway 50	330	15.24	50.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180020A	10/24/2011	AHTD	Crittenden	147	110557

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	77,883.3798	
Easting (M)	550,673.2517	
Elevation (M)*	61.908	
Northing (SFT)	255,522.3886	
Easting (SFT)	1,806,667.1600	
Elevation (SFT)*	203.111	

Convergence Angle	0	57	38.8051782
Scale Factor	0.999983422		
Elevation Adjust. Factor	0.9999902847		
Combined Adjust. Factor	0.9999737068		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	1	26.2735716
Longitude	90	20	56.0055660
Ellipsoid Height (M):	34.786		
Geoid Height (M):	-27.149		

Location Description

This station is approx. 0.575 miles west on highway 50 from the main point (180020) or about 0.6 miles from the northern most intersection of highway 147 and 50. The station is on the north side of the highway 50 and it is a standard alum. cap stamped (180020a 2011) and is set on a 4 foot 5/8" rebar. It is 29 foot north of the CL of 50 and 2 foot south of a witness post. Lat.35.0127 Lon.090.2056

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL of a gravel field entrance	85	6.40	21.0
MK # 2	CL of a ditch	260	10.67	35.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED ON DIGITAL LEVELS BY B&F ENGINEERING IN FEBRUARY OF 2012 USING NGS 1ST ORDER MARK C 219, NGS 1ST ORDER MARK L 218 SUPERCEDED BY NGS PRECISE STATIC OBSERVATION, & NGS 1ST ORDER MARK H 218 SUPERCEDED BY NGS STATIC OBSERVATION ALL AS CONSTRAINTS. **NOTE: INITIAL LEVEL LOOP WAS PROCESSED USING ORIGINAL 1ST ORDER PUBLISHED ELEVATIONS FOR L 218 & H 218 BUT PROVED

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180021	6/5/2012	AHTD	Crittenden	64	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,618.2866	
Easting (M)	539,687.2440	
Elevation (M)*	61.430	
Northing (SFT)	346,515.9953	
Easting (SFT)	1,770,623.8997	
Elevation (SFT)*	201.540	

Convergence Angle	0	53	36.5841526
Scale Factor	0.999950366		
Elevation Adjust. Factor	0.9999903598		
Combined Adjust. Factor	0.9999407263		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	16	31.9256184
Longitude	90	27	52.2650412
Ellipsoid Height (M):	34.199		
Geoid Height (M):	-27.232		

Location Description

To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 16.7 miles to the station on the left. The station is 9.0 ft. North of the witness post, 69.0 ft South of the centerline of Hwy. 64, and 22.0 ft Southeast of the center of a sewer manhole. The station mark is a 2 1/2 in. cap stamped "180021 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole w/2 guy wires	81	10.60	34.8
MK # 2	Northwest corner of concrete block foundation	105	5.60	18.4
MK # 3	Power pole w/twin transformers	267	27.10	88.9

AZ Mark Station	180004
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180022	6/5/2012	AHTD	Crittenden	64	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,861.2539	
Easting (M)	546,278.5967	
Elevation (M)*	64.775	

Northing (SFT)	344,032.2972	
Easting (SFT)	1,792,249.0293	
Elevation (SFT)*	212.515	

Convergence Angle	0	56	8.0525196
Scale Factor			0.999951101
Elevation Adjust. Factor			0.9999898348
Combined Adjust. Factor			0.9999409363

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	16	3.9492084	
Longitude	90	23	31.9650000	
Ellipsoid Height (M):			37.541	
Geoid Height (M):			-27.234	

Location Description

To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 12.4 miles to the station on the right. The station is 2.0 ft. Southwest of a witness post, 43.5 ft. Northeast of the cenerline of Hwy. 64, and 19.0 ft. Southeast of a field road. The station mark is a 2 1/2 in. cap stamped "180022 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	180022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station	Date Monumented	Monumented By	County	Route	Job Number:
180022A	6/5/2012	AHTD	Crittenden	64	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,258.2279	
Easting (M)	545,800.0854	
Elevation (M)*	65.158	
Northing (SFT)	345,334.7027	
Easting (SFT)	1,790,679.1135	
Elevation (SFT)*	213.772	

Convergence Angle	0	55	57.1855408
Scale Factor	0.999950754		
Elevation Adjust. Factor	0.9999897747		
Combined Adjust. Factor	0.9999405292		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	16	17.0824080
Longitude	90	23	50.6400216
Ellipsoid Height (M):	37.920		
Geoid Height (M):	-27.239		

Location Description

To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 12.8 miles to the station on the right. The station is 2.0 ft. South of a witness post, 64.0 ft. north of the centerline of Hwy. 64, and 21.0 ft. East of the center of gravel road. The station mark is a 2 1/2 in. cap stamped "180022A 2012" set on top of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" CMP	208	6.00	19.7
MK # 2				
MK # 3				

AZ Mark Station	180022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180023	6/5/2012	AHTD	Crittenden	64	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,819.1522	
Easting (M)	549,087.1034	
Elevation (M)*	65.585	
Northing (SFT)	337,332.5018	
Easting (SFT)	1,801,463.2717	
Elevation (SFT)*	215.173	

Convergence Angle	0	57	11.9240745
Scale Factor	0.999952958		
Elevation Adjust. Factor	0.9999897077		
Combined Adjust. Factor	0.9999426662		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	14	56.1898752
Longitude	90	21	42.2010360
Ellipsoid Height (M):	38.372		
Geoid Height (M):	-27.213		

Location Description

To reach the station from the intersection of highway 64 and interstate 55 in Marion go west on hwy-64 for 10.1 miles to the station on the left near the corner of a chain link fence, 79 feet south of the center of hwy-64, 50 feet west of the center of "Oilwell corner road" and 5.50 feet east of a witness post. The station mark is a 2 1/2in. cap stamped "180023 2012" set on top of a 5/8in. by 4 ft. long rebar and is 0.10ft. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18 inch drain pipe	149	11.50	37.7
MK # 2	Gas valve	181	21.00	68.9
MK # 3				

AZ Mark Station	180023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

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Station	Date Monumented	Monumented By	County	Route	Job Number:
180023A	6/5/2012	AHTD	Crittenden	64	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,294.5824	
Easting (M)	549,103.7617	
Elevation (M)*	65.847	
Northing (SFT)	335,611.4758	
Easting (SFT)	1,801,517.9248	
Elevation (SFT)*	216.032	

Convergence Angle	0	57	12.1065641
Scale Factor	0.999953441		
Elevation Adjust. Factor	0.9999896666		
Combined Adjust. Factor	0.9999431081		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	14	39.1609464
Longitude	90	21	41.8874256
Ellipsoid Height (M):	38.641		
Geoid Height (M):	-27.206		

Location Description

To reach from the intersection of I-55 and Hwy.64 in Marion. Go West on Hwy. 64 for 10.1 miles to County Road 13 (Oil Well Corner Rd.), then go South on County Road 13 (Oil Well Corner Rd.) for 0.3 miles to the station on the left. The station is 8.0 ft. West of the witness post, and 18.0 ft. East of the centerline of Hwy. 13 (Oil Well Corner Rd.) The station mark is a 2 1/2 in. cap stamped "180023A 2012" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	91	2.45	8.0
MK # 2	Telephone Box	177	21.50	70.5
MK # 3				

AZ Mark Station	180023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180024	6/5/2012	AHTD	Crittenden	50	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	101,379.8364	
Easting (M)	552,335.1209	
Elevation (M)*	67.893	
Northing (SFT)	332,610.3466	
Easting (SFT)	1,812,119.4758	
Elevation (SFT)*	222.746	

Convergence Angle	0	58	26.1147225
Scale Factor	0.999954351		
Elevation Adjust. Factor	0.9999893455		
Combined Adjust. Factor	0.9999436970		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	14	7.7181360
Longitude	90	19	34.7035980
Ellipsoid Height (M):	40.688		
Geoid Height (M):	-27.205		

Location Description

To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 7.9 miles to Hwy. 50. Then take Hwy. 50 South for 0.1 miles to the station on the left. The station is 9.0 ft. South of a witness post, 10.0 ft. Northwest of an 18" concrete pipe, and it is 30.0 ft. Northwest of Hwy. 50. The station mark is a 2 1/2 in. cap stamped "180024 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	358	3.00	9.8
MK # 2				
MK # 3				

AZ Mark Station	180024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180024A	6/5/2012	AHTD	Crittenden	50	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	100,853.9769	
Easting (M)	552,352.0162	
Elevation (M)*	67.431	
Northing (SFT)	330,885.0892	
Easting (SFT)	1,812,174.9065	
Elevation (SFT)*	221.229	

Convergence Angle	0	58	26.2977840
Scale Factor	0.999954855		
Elevation Adjust. Factor	0.9999894180		
Combined Adjust. Factor	0.9999442735		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	13	50.6471268
Longitude	90	19	34.3890048
Ellipsoid Height (M):	40.232		
Geoid Height (M):	-27.198		

Location Description

To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy.64 for 7.9 miles to Hwy. 50. Then go South on Hwy. 50 for 0.2 miles to the station on the left. The station is 2.0 ft. North of the witness post, and 29.0 ft. East of the center of Hwy. 50. The station mark is a 2 1/2 in. cap stamped "180024A 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" in. CMP under fld ent	200	5.20	17.1
MK # 2	Power Pole	255	17.50	57.4
MK # 3				

AZ Mark Station	180024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180025	6/5/2012	AHTD	Crittenden	64	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	97,824.2855	
Easting (M)	556,872.8864	
Elevation (M)*	68.047	
Northing (SFT)	320,945.1767	
Easting (SFT)	1,827,007.1281	
Elevation (SFT)*	223.249	

Convergence Angle	1	0	9.1022758
Scale Factor			0.999957970
Elevation Adjust. Factor			0.9999893214
Combined Adjust. Factor			0.9999472918

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	12	9.8178552	
Longitude	90	16	37.7183640	
Ellipsoid Height (M):	40.863			
Geoid Height (M):	-27.182			

Location Description

To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 4.3 miles to the station on the left. The station is 3.0 ft. Northeast of a witness post, 50.0 ft. North of the nearest Railroad Rail, and 49.0 ft. Southwest of the centerline of Hwy. 64. The station mark is a 2 1/2 in. cap stamped "180025 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Railroad signal pole (semaphore)	160	16.40	53.8
MK # 2	18" CMP	278	9.60	31.5
MK # 3				

AZ Mark Station	180025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180025A	6/5/2012	AHTD	Crittenden	64	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	98,152.0506	
Easting (M)	556,299.2269	
Elevation (M)*	68.271	
Northing (SFT)	322,020.5193	
Easting (SFT)	1,825,125.0469	
Elevation (SFT)*	223.985	

Convergence Angle	0	59	56.0384877
Scale Factor	0.999957620		
Elevation Adjust. Factor	0.9999892862		
Combined Adjust. Factor	0.9999469066		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	12	20.7773496
Longitude	90	17	0.1686264
Ellipsoid Height (M):	41.087		
Geoid Height (M):	-27.183		

Location Description

To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 4.7 miles to the station on the right. The station is 2.0 ft. West of the witness post, 58.0 ft. North of the center of Hwy. 64, and 5.0 ft. West of the center of the box culvert. The station mark is a 2 1/2 in. cap stamped "180025A 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fiber Optic Manhole	310	31.20	102.4
MK # 2				
MK # 3				

AZ Mark Station	180025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180026	1/28/2013	AHTD	Crittenden	42	110567

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	116,325.4084	
Easting (M)	549,067.7757	
Elevation (M)*	65.416	
Northing (SFT)	381,644.2774	
Easting (SFT)	1,801,399.8608	
Elevation (SFT)*	214.620	

Convergence Angle	0	57	16.6589295
Scale Factor	0.999942845		
Elevation Adjust. Factor	0.9999897341		
Combined Adjust. Factor	0.9999325797		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	22	14.4154920
Longitude	90	21	34.0641360
Ellipsoid Height (M):	38.004		
Geoid Height (M):	-27.404		

Location Description

To reach from the intersection of I 55 and Hwy. 42 in Turrell. Go West on Hwy. 42 for 4.4 miles to Hwy. 118. Then go North (right) on Hwy. 118 for 0.3 miles to the station on the right. The station is 1.5 ft. West of witness post,and 27 ft. East of Hwy. 118, and 17 ft. North of the cl of driveway. The station is a 2 1/2 in. cap stamped "180026 2013" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	N end of culvert	102	1.83	6.0
MK # 2	Power pole	316	32.61	107.0
MK # 3				

AZ Mark Station	180026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180026A	1/28/2013	AHTD	Crittenden	42	110567

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	115,876.8140	
Easting (M)	549,170.9687	
Elevation (M)*	65.777	
Northing (SFT)	380,172.5139	
Easting (SFT)	1,801,738.4198	
Elevation (SFT)*	215.802	

Convergence Angle	0	57	18.8651279
Scale Factor	0.999943110		
Elevation Adjust. Factor	0.9999896776		
Combined Adjust. Factor	0.9999327882		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	21	59.8049640
Longitude	90	21	30.2727600
Ellipsoid Height (M):	38.375		
Geoid Height (M):	-27.398		

Location Description

To reach from the intersection of I 55 and Hwy. 42 in Turrell. Go West on Hwy. 42 for 4.4 miles to the station on the left. The station is 3 ft. North of witness post,and 36 ft. South of cl of Hwy.42. The station is a 2 1/2 in. cap stamped "180026A 2013" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole with light	268	29.57	97.0
MK # 2	Radio tower	196	28.65	94.0
MK # 3	Fence corner	89	10.36	34.0

AZ Mark Station	180026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST. BY 3RD ORDER DIGITAL LEVEL FROM NGS BM V 4, COE MARK 0-11-3-93, AND COE MARK 0-11-5-93 BY CREW S5102 IN JOB 110567 DURING MARCH 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180027	5/1/2017	Garver	CRITTENDEN	77	110614, 110870

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,717.3458	0.0030
Easting (M)	563,880.3551	0.0030
Elevation (M)*	67.010	0.0020
Northing (SFT)	327,155.9920	
Easting (SFT)	1,849,997.4650	
Elevation (SFT)*	219.847	

Convergence Angle	1	2	51.0809086
Scale Factor			0.999956169
Elevation Adjust. Factor			0.9999894841
Combined Adjust. Factor			0.9999456536

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	13	7.1704740
Longitude	90	11	59.3561976
Ellipsoid Height:			39.691
Grid Northing (Meters)			99,717.3571
Grid Easting (Meters)			563,880.3579

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	35	13	7.1701104
Longitude	90	11	59.3563164
Ellipsoid Height (M):			39.673 0.0000
Geoid Height (M):			-27.332

Location Description

From the intersection of I-55 and Hwy-65 in Marion, go East for .50 miles to the junction of Hwy-77 and then go North for .30 miles to the station on the Left. Standard 2 ½ " GPS Cap stamped 180027 2017 on top of a 4ft Rebar set below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL OF 77		8.84	29.0
MK # 2	TP		18.29	60.0
MK # 3	WITNESS POLE		0.30	1.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB (ARWY)
Ref Mon # 2	ARPG (TN45)
Ref Mon # 3	ARWY, MOKE (ZME1)

Comments

SS Elevation 67.010m (219.8470 US FT) by digital levels from NGS BM D 314, by Garver in May 2017 during job 110614
**********UPDATED ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER BM D 314 AND 2ND ORDER BM C 5 IN AUGUST 2025 BY CREW S5103 FOR JOB #110870

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180028	6/12/2016	AHTD	Crittenden	78	110650

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	94,512.7141	0.0030
Easting (M)	570,595.7076	0.0030
Elevation (M)*	66.337	0.0007
Northing (SFT)	310,080.4628	
Easting (SFT)	1,872,029.4174	
Elevation (SFT)*	217.642	

Convergence Angle	1	5	23.2948302
Scale Factor	0.999961831		
Elevation Adjust. Factor	0.9999895896		
Combined Adjust. Factor	0.9999514210		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12B		
Latitude	35	10	14.2444632
Longitude	90	7	37.7750316
Ellipsoid Height (M):	39.021	0.0050	
Geoid Height (M):	-27.316		

Location Description

To reach from the intersection of hwy I-40 and hwy 38(MLK) in Crittenden County, go North 1.2 miles to station on the right. 18' West of a sign post and power pole, 19' East of CL Hwy 38. Station is an AHTD GPS monument stamped "180028 2017" set ontop of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Sign post		18.00	59.1
MK # 2	Power Pole		18.00	59.1
MK # 3	CL Hwy 38		19.00	62.3

AZ Mark Station	180028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1

Comments

Position derived by static GPS, elevation based on digital levels from AHTD GPS Mon. 1800102A by crew S5113 in June 2017 during job 110650.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180028A	6/12/2016	AHTD	Crittenden	78	110650

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	95,037.7839	0.0030
Easting (M)	570,590.6216	0.0030
Elevation (M)*	66.258	0.0007
Northing (SFT)	311,803.1293	
Easting (SFT)	1,872,012.7310	
Elevation (SFT)*	217.383	

Convergence Angle	1	5	23.4075512
Scale Factor	0.999961242		
Elevation Adjust. Factor	0.9999896020		
Combined Adjust. Factor	0.9999508444		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12B		
Latitude	35	10	31.2831012
Longitude	90	7	37.5813192
Ellipsoid Height (M):	38.939	0.0050	
Geoid Height (M):	-27.317		

Location Description

To reach from the intersection of hwy I-40 and hwy 38(MLK) in Crittenden County, go North 1.55 miles to station on the right. 16.5' West of a sign, 17' West of Power Pole, and 19' East of CL Hwy 38. Station is an AHTD GPS monument stamped "180028A 2017" set ontop of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Sign		16.50	54.1
MK # 2	Power Pole		17.00	55.8
MK # 3	CL Hwy 38		20.60	67.6

AZ Mark Station	180028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1

Comments

Position derived by static GPS, elevation based on digital levels from AHTD GPS Mon. 1800102A by crew S5113 in June 2017 during job 110650.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180029	5/28/2022	ARDOT	CRITTENDEN	I-40	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	90,582.6112	0.0020
Easting (M)	543,297.4013	0.0020
Elevation (M)*	63.238	
Northing (SFT)	297,186.4502	
Easting (SFT)	1,782,468.2241	
Elevation (SFT)*	207.474	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	8	22.2288684	
Longitude	90	25	38.9287308	
Ellipsoid Height (M):	36.044			0.0050
Geoid Height (M):	-27.173			0.0050

Convergence Angle	0	54	54.1724353
Scale Factor	0.999965869		
Elevation Adjust. Factor	0.9999900760		
Combined Adjust. Factor	0.9999559453		

Location Description

TO REACH THE STATION FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETTE, HEAD NORTH ON HWY 79 FOR 0.35 MILES TO THE I-40 FRONTAGE RD. HEAD WEST/LEFT ON THE FRONTAGE RD. FOR 1.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.3FT N OF THE CL OF I-40 FRONTAGE ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180029 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN POST WITH TURNBUCKLE	5	9.10	29.9
MK # 2				
MK # 3				

AZ Mark Station	180029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180029A	5/28/2022	ARDOT	CRITTENDEN	I-40	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	90,341.5387	0.0020
Easting (M)	542,892.2468	0.0020
Elevation (M)*	63.079	

Northing (SFT)	296,395.5316	
Easting (SFT)	1,781,138.9797	
Elevation (SFT)*	206.950	

Convergence Angle	0	54	44.7719282
Scale Factor	0.999966154		
Elevation Adjust. Factor	0.9999901010		
Combined Adjust. Factor	0.9999562554		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	8	14.6166828
Longitude	90	25	55.0836048
Ellipsoid Height (M):	35.897	0.0050	
Geoid Height (M):	-27.169	0.0050	

Location Description

TO REACH THE STATION FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETTE, HEAD NORTH ON HWY 79 FOR 0.35 MILES TO THE I-40 FRONTAGE RD. HEAD WEST/LEFT ON THE FRONTAGE RD. FOR 2.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 14.7FT N OF THE CL OF I-4O FRONTAGE ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180029A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN POST FOR BARRIER	313	8.80	28.9
MK # 2				
MK # 3				

AZ Mark Station	180029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180030	5/28/2022	ARDOT	CRITTENDEN	79	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	92,143.4428	0.0010
Easting (M)	545,751.6523	0.0020
Elevation (M)*	62.576	
Northing (SFT)	302,307.2786	
Easting (SFT)	1,790,520.2126	
Elevation (SFT)*	205.301	

Convergence Angle	0	55	51.1647052	
Scale Factor	0.999964054			
Elevation Adjust. Factor	0.9999901799			
Combined Adjust. Factor	0.9999542343			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	9	11.5886700
Longitude	90	24	0.9868932
Ellipsoid Height (M):	35.355	0.0040	
Geoid Height (M):	-27.200	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETE, HEAD NORTH ON HWY 79 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 33.9FT E OF THE EP OF HWY 79, 64.0FT N OF EP OF I-40 W BOUND OFF RAMP, AND 91.5FT S OF THE EP OF HWY 218 THE STATION MARK IS A 2 1/2" CAP STAMPED "180030 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	180030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180030A	5/28/2022	ARDOT	CRITTENDEN	79	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	92,601.4954	0.0010
Easting (M)	545,740.7745	0.0020
Elevation (M)*	62.986	

Northing (SFT)	303,810.0728	
Easting (SFT)	1,790,484.5243	
Elevation (SFT)*	206.647	

Convergence Angle	0	55	51.0857320
Scale Factor	0.999963518		
Elevation Adjust. Factor	0.9999901155		
Combined Adjust. Factor	0.9999536339		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	9	26.4563172
Longitude	90	24	1.1226096
Ellipsoid Height (M):	35.763	0.0040	
Geoid Height (M):	-27.204	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 79 NEAR JENNETE, HEAD NORTH ON HWY 79/BINGS STORE RD FOR 0.6 MILES TO THE STAION ON THE RIGHT. THE STATION IS 13.3FT E OF THE CL OF HWY 79. THE STATION MARK IS A 2 1/2" CAP STAMPED "180030A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	180030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180031	5/28/2022	ARDOT	CRITTENDEN	'NEAL R	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	91,986.6130	0.0010
Easting (M)	549,095.3027	0.0010
Elevation (M)*	63.955	

Northing (SFT)	301,792.7462	
Easting (SFT)	1,801,490.1723	
Elevation (SFT)*	209.825	

Convergence Angle	0	57	7.9689764
Scale Factor	0.999964303		
Elevation Adjust. Factor	0.9999899635		
Combined Adjust. Factor	0.9999542669		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	9	4.7172672
Longitude	90	21	48.9979152
Ellipsoid Height (M):	36.721	0.0040	
Geoid Height (M):	-27.219	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND O'NEAL RD, HEAD NORTH ON O'NEAL RD. FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 46FT E OF THE CL OF COUNTY RD. 381, AND 23.3FT S OF THE CL OF THE I-40 FRONTAGE ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180031 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	180031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180031A	5/28/2022	ARDOT	CRITTENDEN	'NEAL R	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	92,440.3177	0.0010
Easting (M)	549,075.4195	0.0010
Elevation (M)*	63.170	

Northing (SFT)	303,281.2757	
Easting (SFT)	1,801,424.9388	
Elevation (SFT)*	207.249	

Convergence Angle	0	57	7.6852433
Scale Factor	0.999963770		
Elevation Adjust. Factor	0.9999900867		
Combined Adjust. Factor	0.9999538571		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	9	19.4487408
Longitude	90	21	49.4855136
Ellipsoid Height (M):	35.929	0.0040	
Geoid Height (M):	-27.222	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND O'NEAL RD, HEAD NORTH ON O'NEAL RD. FOR 0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.9FT W OF THE CL OF COUNTY RD. 381, AND 40.8FT N OF THE CENTER OF A GRAVEL FIELD ROAD. THE STATION MARK IS A 2 1/2" CAP STAMPED "180031A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	25	6.70	22.0
MK # 2				
MK # 3				

AZ Mark Station	180031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180032	5/28/2022	ARDOT	CRITTENDEN	147	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	91,798.3618	0.0010
Easting (M)	555,555.7898	0.0010
Elevation (M)*	64.722	
Northing (SFT)	301,175.1253	
Easting (SFT)	1,822,685.9537	
Elevation (SFT)*	212.343	

Convergence Angle	0	59	36.4029953	
Scale Factor	0.999964656			
Elevation Adjust. Factor	0.9999898431			
Combined Adjust. Factor	0.9999544994			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	8	55.0499784	
Longitude	90	17	33.9124344	
Ellipsoid Height (M):	37.463			0.0040
Geoid Height (M):	-27.256			0.0040

Location Description

TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND HWY 147 IN LEHI, HEAD NORTH ON HWY 147 FOR 0.1 MILES TO THE STAION ON THE LEFT. THE STATION IS IN THE MIDDLE OF A GRAVEL ISLAND. THE STATION IS 29FT E OF THE BACK OF THE CURB OF SOUTHBOUND 147, AND 35.1FT W OF THE BACK OF THE CURB OF NORTHBOUND 147. THE STATION MARK IS A 2 1/2" CAP STAMPED "180032 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	180032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180032A	5/28/2022	ARDOT	CRITTENDEN	147	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	92,283.1137	0.0010
Easting (M)	555,565.4056	0.0020
Elevation (M)*	63.699	

Northing (SFT)	302,765.5155	
Easting (SFT)	1,822,717.5015	
Elevation (SFT)*	208.987	

Convergence Angle	0	59	36.8172744
Scale Factor	0.999964083		
Elevation Adjust. Factor	0.9999900036		
Combined Adjust. Factor	0.9999540870		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	9	10.7724780
Longitude	90	17	33.2004912
Ellipsoid Height (M):	36.435	0.0040	
Geoid Height (M):	-27.260	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JCT OF HWY 70 AND HWY 147 IN LEHI, HEAD NORTH ON HWY 147 FOR 0.4 MILES TO THE STAION ON THE RIGHT. THE STATION IS 42.9FT W OF THE CL OF HWY 147. THE STATION MARK IS A 2 1/2" CAP STAMPED "180032A 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	179	3.00	9.8
MK # 2				
MK # 3				

AZ Mark Station	180032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180033	5/28/2022	ARDOT	CRITTENDEN	LEGE BI	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	91,655.9245	0.0010
Easting (M)	561,791.4088	0.0010
Elevation (M)*	64.449	

Northing (SFT)	300,707.8123	
Easting (SFT)	1,843,143.9804	
Elevation (SFT)*	211.448	

Convergence Angle	1	1	59.6773765
Scale Factor			0.999964957
Elevation Adjust. Factor			0.9999898859
Combined Adjust. Factor			0.9999548433

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	8	46.8500280
Longitude	90	13	27.6938472
Ellipsoid Height (M):	37.143		0.0030
Geoid Height (M):	-27.291		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 77 IN WEST MEMPHIS HEAD WEST ON HWY 70 FOR 2.2 MILES TO THE JCT OF HWY 70 AND S AIRPORT RD. THE STATION WILL BE ON THE LEFT. THE STATION IS 34.0FT E OF THE EP OF S COLLEGE BLVD, AND 81.6FT S OF THE EP OF HWY 70. THE STATION MARK IS A 2 1/2" CAP STAMPED "180033 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	STORM SEWER MANHOLE	111	9.50	31.2
MK # 2	ANTENNA POLE WITH BM Y356	189	9.80	32.2
MK # 3	BRICK FENCE CORNER	304	12.00	39.4

AZ Mark Station	180033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180033A	5/28/2022	ARDOT	CRITTENDEN	LEGE BI	110738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	92,056.7061	0.0010
Easting (M)	561,791.3000	0.0010
Elevation (M)*	64.632	

Northing (SFT)	302,022.7099	
Easting (SFT)	1,843,143.6234	
Elevation (SFT)*	212.048	

Convergence Angle	1	1	59.8410293
Scale Factor			0.999964480
Elevation Adjust. Factor			0.9999898572
Combined Adjust. Factor			0.9999543375

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	8	59.8534044	
Longitude	90	13	27.4126080	
Ellipsoid Height (M):			37.319	0.0030
Geoid Height (M):			-27.293	0.0030

Location Description

TO REACH THE STATION MARK FROM THE JCT. OF HWY 70 AND HWY 77 IN WEST MEMPHIS HEAD WEST ON HWY 70 FOR 2.2 MILES TO COLLEGE BLVD. HEAD NORTH/RIGHT ON COLLEGE BLVD FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 33.5FT E OF THE EP OF COLLEGE BLVD, AND 29.7FT E OF THE CENTER OF A STORM SEWER MANHOLE. THE STATION MARK IS A 2 1/2" CAP STAMPED "180033 2022" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	315	16.90	55.4
MK # 2	FIRE HYDRANT	32	4.00	13.1
MK # 3	BRICK FENCE CORNER	184	7.00	23.0

AZ Mark Station	180033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BMs X 356 & Y 356 BY S5103 IN AUG. 2022 FOR JOB #110738

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180034	11/29/2023	ARDOT	CRITTENDEN	147	C18019, 110827

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	86,093.6680	0.0020
Easting (M)	555,590.4698	0.0020
Elevation (M)*		
Northing (SFT)	282,458.9758	
Easting (SFT)	1,822,799.7330	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	5	49.9399512	
Longitude	90	17	36.4485840	
Ellipsoid Height (M):	37.013	0.0090		
Geoid Height (M):	-27.225	0.0090		

Convergence Angle	0	59	34.9272120
Scale Factor	0.999971829		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the Junction of Hwy. 70 and Hwy. 147 in Lehi. Go South on Hwy. 147 for 3.45 miles to the station on the left/East. The station is 30.0 ft. East of the centerline of Hwy. 147. and 76.0 ft. The station mark is a 2 1/2in. cap stamped "180034 2023" set on top of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North end of Northeast Guardrail	200	1.80	5.9
MK # 2				
MK # 3				

AZ Mark Station	180034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARMA
Ref Mon # 3	ARWM, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180034A	11/29/2023	ARDOT	CRITTENDEN	147	C18019, 110827

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	86,512.1889	0.0020
Easting (M)	555,587.9326	0.0020
Elevation (M)*		
Northing (SFT)	283,832.0731	
Easting (SFT)	1,822,791.4089	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	6	3.5204256	
Longitude	90	17	36.2623524	
Ellipsoid Height (M):	35.764	0.0090		
Geoid Height (M):	-27.227	0.0090		

Convergence Angle	0	59	35.0355800
Scale Factor	0.999971275		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the Junction of Hwy. 70 and Hwy. 147 in Lehi. Go South on Hwy. 147 for 3.2 miles to the station on the Left/East. The station is 27.0 ft. East of the centerline of Hwy. 147. The station mark is a 2 1/2 in. cap stamped "180034A 2023" set on top of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	144	32.70	107.3
MK # 2				
MK # 3				

AZ Mark Station	180034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARMA
Ref Mon # 3	ARWM, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180035	4/2/2024	ARDOT	CRITTENDEN	149	01X466

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	107,191.9218	0.0010
Easting (M)	539,298.6757	0.0010
Elevation (M)*	64.532	0.0000
Northing (SFT)	351,678.8301	
Easting (SFT)	1,769,349.0719	
Elevation (SFT)*	211.718	

Convergence Angle	0	53	28.2015833
Scale Factor	0.999949067		
Elevation Adjust. Factor	0.9999898729		
Combined Adjust. Factor	0.9999389405		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	17	23.1801288
Longitude	90	28	6.6705780
Ellipsoid Height (M):	37.169		0.0040
Geoid Height (M):	-27.363		

Location Description

From the intersection on U.S. Highway 64 and Arkansas State Highway 149 near Earle in Critteden County, Arkansas, travel North East along Arkansas State Highway 149 for 0.97 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped180035 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 32 feet (9.7 Meters) East of the centerline of Arkansas State Highway 149, 50 feet (15.2M) South of Swindle Road and 2 feet (.06 Meters) West of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone Pedestal	290	9.50	31.2
MK # 2	Telephone Pedestal	348	21.90	71.9
MK # 3				

AZ Mark Station	180035A
Geodetic Azimuth	183 34 05.1
Grid Azimuth	182 40 37.2

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARWY
Ref Mon # 3	ARWM

Comments

ELEV WAS EST BY STATIC OBS HOLDING NGS BM EARLE DURING JOB 01X466 BY CREW S5101 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180035A	4/2/2024	ARDOT	CRITTENDEN	149	01X466

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	106,800.5207	0.0010
Easting (M)	539,280.3752	0.0010
Elevation (M)*	63.738	0.0000
Northing (SFT)	350,394.7083	
Easting (SFT)	1,769,289.0310	
Elevation (SFT)*	209.114	

Convergence Angle	0	53	27.6399973
Scale Factor	0.999949383		
Elevation Adjust. Factor	0.9999899975		
Combined Adjust. Factor	0.9999393810		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	17	10.4899704
Longitude	90	28	7.6356696
Ellipsoid Height (M):	36.374		0.0040
Geoid Height (M):	-27.358		

Location Description

From the intersection on U.S. Highway 64 and Arkansas State Highway 149 near Earle in Critteden County, Arkansas, travel North East along Arkansas State Highway 149 for 0.73 Miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped180035A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 31 feet (9.5 Meters) West of the centerline of Arkansas State Highway 149,and 10 feet (3.0 Meters) South East of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South End 18" Culvert	31	5.20	17.1
MK # 2	Combination Pole	65	20.70	67.9
MK # 3	Sewer Man Hole	3	22.30	73.2

AZ Mark Station	180035
Geodetic Azimuth	3 34 05.1
Grid Azimuth	2 40 37.2

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARWY
Ref Mon # 3	ARWM

Comments

ELEV WAS EST BY STATIC OBS HOLDING NGS BM EARLE ON GPS 180035 THEN RUNNING 3WR LEVELS TO 180035A DURING JOB 01X466 BY CREW S5101 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180036	8/19/2025	ARDOT	Crittenden	77	110870

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	97,384.4750	0.0030
Easting (M)	565,028.4354	0.0030
Elevation (M)*	66.130	
Northing (SFT)	319,502.2317	
Easting (SFT)	1,853,764.1251	
Elevation (SFT)*	216.961	

Convergence Angle	1	3	16.5056859
Scale Factor			0.999958584
Elevation Adjust. Factor			0.9999896222
Combined Adjust. Factor			0.9999482066

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	35	11	50.7976332
Longitude	90	11	15.6635592
Ellipsoid Height (M):	38.806		
Geoid Height (M):	-27.324		

Location Description

To reach from the intersection of Highway 64 and Highway 77 in Marion, go South on Hwy. 77 for 1.5 miles to LH Polk Dr. Go West for 0.2 miles to the station on the Right/North. The station is 18.0' North of the centerline of LH Polk Dr. and 30.5' North of the center of Candy Cv. The station mark is a standard 2 1/2 in. aluminium cap stamped "180036 2025" and set on top of a 5/8" by 2' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	296	24.50	80.4
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY, MOKE

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER BM D 314 AND 2ND ORDER BM C 5 IN AUGUST 2025 BY CREW S5103 FOR JOB #110870

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
180036A	8/19/2025	ARDOT	Crittenden	77	110870

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	97,368.1691	0.0030
Easting (M)	565,539.3076	0.0030
Elevation (M)*	68.308	

Northing (SFT)	319,448.7348	
Easting (SFT)	1,855,440.2117	
Elevation (SFT)*	224.107	

Convergence Angle	1	3	28.2487925
Scale Factor	0.999958611		
Elevation Adjust. Factor	0.9999892804		
Combined Adjust. Factor	0.9999478918		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	35	11	49.9630092
Longitude	90	10	55.4829024
Ellipsoid Height (M):	40.984		
Geoid Height (M):	-27.324		

Location Description

To reach from the intersection of Highway 64 and Highway 77 in Marion, go South on Hwy. 77 for 1.5 miles to LH Polk Dr. Go East for 0.1 miles to the station on the Right/South. The station is 4.9' South of the centerline of LH Polk Dr., 62.2' East of a manhole, and 7.5" North of sidewalk. The station mark is a standard 2 1/2 in. aluminium cap stamped "180036A 2025" and set on top of a 5/8" by 2' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	254	12.00	39.4
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY, MOKE

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER BM D 314 AND 2ND ORDER BM C 5 IN AUGUST 2025 BY CREW S5103 FOR JOB #110870

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190001	4/27/1999	AHTD	CROSS	1	001853,110423,110808

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	104,034.2005	0.0018
Easting (M)	509,792.7019	0.0018
Elevation (M)*	78.604	
Northing (SFT)	341,318.8728	
Easting (SFT)	1,672,544.8895	
Elevation (SFT)*	257.887	

Convergence Angle	0	42	7.8325596
Scale Factor			0.999951366
Elevation Adjust. Factor			0.9999876646
Combined Adjust. Factor			0.9999390312

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	15	54.0348336
Longitude	90	47	35.8927188
Ellipsoid Height:			51.409
Grid Northing (Meters)			104,034.2021
Grid Easting (Meters)			509,792.6880

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	15	54.0347760	
Longitude	90	47	35.8921680	
Ellipsoid Height (M):			51.375	0.0016
Geoid Height (M):			-27.234	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.73 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 10.14 METERS WEST OF THE CENTER OF HIGHWAY 1, 5.95 EAST METERS OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190001A
Geodetic Azimuth	179 50 23.36445
Grid Azimuth	179 08 15.53207

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	DAWSEY

Comments

ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190001A	4/27/1999	AHTD	CROSS	1	001853,110423,110808

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	103,527.9836	0.0018
Easting (M)	509,800.3420	0.0018
Elevation (M)*	78.396	
Northing (SFT)	339,658.0595	
Easting (SFT)	1,672,569.9554	
Elevation (SFT)*	257.204	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	15	37.6062480	
Longitude	90	47	35.8353600	
Ellipsoid Height (M):	51.168			0.0000
Geoid Height (M):	-27.228			

Convergence Angle	0	42	7.8656161
Scale Factor	0.999951810		
Elevation Adjust. Factor	0.9999876973		
Combined Adjust. Factor	0.9999395079		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.11 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "190001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	15	37.6061184
Longitude	90	47	35.8367100
Ellipsoid Height:	51.202		
Grid Northing (Meters)	103,527.9791		
Grid Easting (Meters)	509,800.3080		

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190001
Geodetic Azimuth	359 50 23.39677
Grid Azimuth	359 08 15.53207

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	DAWSEY

Comments

ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190002	4/27/1999	AHTD	CROSS	1	001853

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,934.8801	
Easting (M)	509,923.5070	
Elevation (M)*	78.886	
Northing (SFT)	357,397.1858	
Easting (SFT)	1,672,974.0392	
Elevation (SFT)*	258.812	

Convergence Angle	0	42	12.2289916
Scale Factor	0.999947395		
Elevation Adjust. Factor	0.9999876204		
Combined Adjust. Factor	0.9999350160		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	32.9973552
Longitude	90	47	28.3368516
Ellipsoid Height (M):	51.659		
Geoid Height (M):	-27.186		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 6.12 KM (3.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.00 METERS SOUTHWEST OF THE CENTER OF COUNTY ROAD 240, 13.30 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190002A
Geodetic Azimuth	46 59 08.374232
Grid Azimuth	46 16 56.114219

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	DAWSEY

Comments

Elevations based on 3 wire from NGS point A 182

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190002A	4/27/1999	AHTD	CROSS	1	001853

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	109,315.3601	
Easting (M)	510,321.4090	
Elevation (M)*	79.857	
Northing (SFT)	358,645.4773	
Easting (SFT)	1,674,279.4894	
Elevation (SFT)*	261.998	

Convergence Angle	0	42	21.5022394
Scale Factor	0.999947115		
Elevation Adjust. Factor	0.9999874680		
Combined Adjust. Factor	0.9999345837		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	45.1841400
Longitude	90	47	12.4006740
Ellipsoid Height (M):	52.633		
Geoid Height (M):	-27.190		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 64, LOCATED ON THE NORTHWEST SIDE OF WYNNE, GO NORTH ON STATE HIGHWAY 1 FOR 6.66 KM (4.14 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.61 METERS NORTHEAST OF THE NORTHEAST CORNER OF A BRIDGE, 7.04 METERS SOUTH-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "190002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CMP	140	7.47	24.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190002
Geodetic Azimuth	226 59 17.58556
Grid Azimuth	226 16 56.11422

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	DAWSEY

Comments

Elevations based on 3 wire from NGS point A 182

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190003	4/27/1999	AHTD	CROSS	1	001853

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	115,616.3830	
Easting (M)	511,713.1980	
Elevation (M)*	81.334	
Northing (SFT)	379,318.0832	
Easting (SFT)	1,678,845.7171	
Elevation (SFT)*	266.843	

Convergence Angle	0	42	55.3742453
Scale Factor	0.999942941		
Elevation Adjust. Factor	0.9999872362		
Combined Adjust. Factor	0.9999301779		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	22	9.0749316
Longitude	90	46	14.1912624
Ellipsoid Height (M):	54.018		
Geoid Height (M):	-27.265		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWYAY 42, LOCATED IN CHERRY VALLEY, GO SOUTH ON STATE HIGHWAY 1 FOR 4.07 KM (2.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.32 METERS EAST OF THE CENTER OF STATE HIGHWAY 1, 8.00 METERS NORTH OF THE CENTER OF COUNTY ROAD 3420 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190003 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	250	7.46	24.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190003A
Geodetic Azimuth	186 09 34.95168
Grid Azimuth	185 26 39.57996

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	DAWSEY

Comments

Elevations based on 3 wire from NGS point U 182

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190003A	4/27/1999	AHTD	CROSS	1	001853

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	115,233.3600	
Easting (M)	511,676.6920	
Elevation (M)*	82.274	
Northing (SFT)	378,061.4486	
Easting (SFT)	1,678,725.9470	
Elevation (SFT)*	269.927	

Convergence Angle	0	42	54.4225399
Scale Factor	0.999943167		
Elevation Adjust. Factor	0.9999870887		
Combined Adjust. Factor	0.9999302564		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	21	56.6617140
Longitude	90	46	15.8267784
Ellipsoid Height (M):	54.968		
Geoid Height (M):	-27.260		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 42, LOCATED IN CHERRY VALLEY, GO SOUTH ON STATE HIGHWAY 1 FOR 4.46 KM (2.77 MI) TO THE STATION ON THE RIGHT JUST SOUTH OF A BRIDGE. THE STATION IS 9.65 METERS NORTH OF A GRAVEL ENTRANCE TO A LAWN, 6.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 6.45 METERS SOUTH OF THE SOUTHWEST CORNER OF A BRIDGE AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190003
Geodetic Azimuth	6 09 34.005028
Grid Azimuth	5 26 39.579959

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	DAWSEY

Comments

Elevations based on 3 wire from NGS point U 182

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190004	4/27/1999	AHTD	CROSS	1	001853,110622

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	118,809.4365	0.0020
Easting (M)	512,189.4816	0.0020
Elevation (M)*	80.371	0.0014
Northing (SFT)	389,793.9596	
Easting (SFT)	1,680,408.3242	
Elevation (SFT)*	263.684	

Convergence Angle	0	43	7.2763626
Scale Factor			0.999941195
Elevation Adjust. Factor			0.9999873873
Combined Adjust. Factor			0.9999285831

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	23	52.4863752
Longitude	90	45	53.7384456
Ellipsoid Height:			53.034
Grid Northing (Meters)			118,809.4231
Grid Easting (Meters)			512,189.4540

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	23	52.4868000	
Longitude	90	45	53.7373440	
Ellipsoid Height (M):			52.976	0.0000
Geoid Height (M):			-27.395	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 42, LOCATED IN CHERRY VALLEY, GO SOUTH ON STATE HIGHWAY 1 FOR 0.67 KM (0.42 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1, 18.00 METERS NORTHEAST OF A PAVED ENTERANCE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	219	14.25	46.8
MK # 2	TELEPHONE JUNCTION BOX	52	21.60	70.9
MK # 3	NONE			

AZ Mark Station	190004A
Geodetic Azimuth	43 57 27.092191
Grid Azimuth	43 14 19.792303

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	DAWSEY

Comments

Position updated by static GPS, elevation updated by three wire elevation using NGS BM P 242 by crew S5113 in May 2017

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190004A	4/27/1999	AHTD	CROSS	1	001853, 110622

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	119,296.6223	0.0020
Easting (M)	512,647.6031	0.0020
Elevation (M)*	83.123	
Northing (SFT)	391,392.3350	
Easting (SFT)	1,681,911.3445	
Elevation (SFT)*	272.713	

Convergence Angle	0	43	17.9817959
Scale Factor			0.999940953
Elevation Adjust. Factor			0.9999869554
Combined Adjust. Factor			0.9999279092

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	24	8.1074124
Longitude	90	45	35.3409372
Ellipsoid Height:			55.788
Grid Northing (Meters)			119,296.6141
Grid Easting (Meters)			512,647.5780

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	24	8.1076680	
Longitude	90	45	35.3399400	
Ellipsoid Height (M):			55.725	0.0040
Geoid Height (M):			-27.402	

Location Description

THE STATION IS LOCATED IN CHERRY VALLEY, AT THE JUNCTION OF STATE HIGHWAY 1AND STATE HIGHWAY 42. THE STATION IS 12.72 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 11.69 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 42 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	47	30.90	101.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190004
Geodetic Azimuth	223 57 37.74955
Grid Azimuth	223 14 19.79230

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	DAWSEY

Comments

Position updated by static GPS, elevation updated by three wire elevation using NGS BM P 242 by crew S5113 in May 2017

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190005	5/18/1999	AHTD	CROSS	64	0334,110288,Mobie LiDAR-C

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,461.9081	
Easting (M)	533,609.7540	
Elevation (M)*	65.320	
Northing (SFT)	342,722.1102	
Easting (SFT)	1,750,684.6679	
Elevation (SFT)*	214.304	

Convergence Angle	0	51	16.2616521
Scale Factor	0.999951276		
Elevation Adjust. Factor	0.9999897493		
Combined Adjust. Factor	0.9999410258		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	15	57.4138044
Longitude	90	31	53.4107892
Ellipsoid Height (M):	38.088		
Geoid Height (M):	-27.204		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 64B, LOCATED ON THE EAST SIDE OF PARKIN, GO EAST ON U.S. HIGHWAY 64 FOR 0.45 KM (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190005 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE CORNER POST	127	4.45	14.6
MK # 2	TELEPHONE JUNCTION BOX	279	28.00	91.9
MK # 3	NONE			

AZ Mark Station	190005A
Geodetic Azimuth	285 45 37.42491
Grid Azimuth	284 54 21.20661

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190005A RESET	9/25/2000	AHTD	CROSS	64	4,110288,Mobie LiDAR-CLS,1

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,591.5025	
Easting (M)	533,122.9858	
Elevation (M)*	65.102	
Northing (SFT)	343,147.2878	
Easting (SFT)	1,749,087.6626	
Elevation (SFT)*	213.590	

Convergence Angle	0	51	5.1001790
Scale Factor			0.999951157
Elevation Adjust. Factor			0.9999897834
Combined Adjust. Factor			0.9999409409

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	16	1.8534972
Longitude	90	32	12.5924532
Ellipsoid Height:			37.861
Grid Northing (Meters)			104,591.4925
Grid Easting (Meters)			533,122.9721

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	16	1.8538140
Longitude	90	32	12.5919024
Ellipsoid Height (M):	37.899		
Geoid Height (M):	-27.204		

Location Description

THE STATION IS LOCATED ON THE EAST SIDE OF PARKIN AT THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 64B. THE STATION IS 23.31 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64B, 15.35 METERS SOUTH-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "190005A RESET 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 503.758. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 901. NOTE THE OLD STATION WAS DESTORYED THIS IS A NEW POINT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A BRICK SIGN FOR PARKIN	113	21.98	72.1
MK # 2	FIRE HYDRANT	139	18.28	60.0
MK # 3	GUY POLE	148	16.95	55.6

AZ Mark Station	190005
Geodetic Azimuth	105 5429.75126
Grid Azimuth	104 54 24.60810

Area Reference Monuments (used for Processing)

Ref Mon # 1	180004
Ref Mon # 2	W 15 OFFSET
Ref Mon # 3	MEM 2

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment. Superceded ELEV. 213.359(65.032m)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190006	3/6/2000	AHTD	CROSS	1	R10071, 012240,110574

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	94,430.7554	0.0020
Easting (M)	509,422.1899	0.0020
Elevation (M)*	76.583	

Northing (SFT)	309,811.5700	
Easting (SFT)	1,671,329.3014	
Elevation (SFT)*	251.257	

Convergence Angle	0	41	56.6053023
Scale Factor			0.999960855
Elevation Adjust. Factor			0.9999879817
Combined Adjust. Factor			0.9999488372

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	10	42.5727624
Longitude	90	47	55.1878332
Ellipsoid Height:			49.597
Grid Northing (Meters)			94,430.7521
Grid Easting (Meters)			509,422.1520

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	10	42.5728560	
Longitude	90	47	55.1863320	
Ellipsoid Height (M):			49.509	0.0100
Geoid Height (M):			-27.114	

Location Description

TO REACH THE STATION FROM CROSS-ST. FRANCIS COUNTY LINE GO NORTH ON STATE HIGHWAY 1 FOR 3.38 KM (2.10 MI) TO THE JUNCTION OF COUNTY ROAD 744 ON THE RIGHT. GO RIGHT, EAST ON COUNTY ROAD 744 FOR 0.32 KM (0.20 MI) TO THE EAST END OF A BRIDGE AND THE STATION ON THE RIGHT. THE STATION IS 23.75 METERS WEST OF THE CENTER OF A PAVED FIELD ENTRANCE, 9.40 METERS EAST OF THE EAST END OF THE BRIDGE OVER BEAR CREEK, 6.33 METERS SOUTH OF THE CENTER OF COUNTY ROAD 744 AND 1.42 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190006 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 600.581 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	182	25.75	84.5
MK # 2	PUNCH IN TOP OF METAL GUARD RAIL POST	81	6.00	19.7
MK # 3	WEST END OF CMP	104	18.63	61.1

AZ Mark Station	190006A
Geodetic Azimuth	272 29 06.05490
Grid Azimuth	271 47 09.51892

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	MEM2

Comments

Elevations based on 3 wire from NGS point H 175

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190006A	3/6/2000	AHTD	CROSS	1	R10071, 012240,110574

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	94,449.4636	0.0020
Easting (M)	508,821.9622	0.0020
Elevation (M)*	75.896	

Northing (SFT)	309,872.9485	
Easting (SFT)	1,669,360.0543	
Elevation (SFT)*	249.001	

Convergence Angle	0	41	42.8072194
Scale Factor			0.999960827
Elevation Adjust. Factor			0.9999880896
Combined Adjust. Factor			0.9999489171

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	10	43.4170848
Longitude	90	48	18.9013356
Ellipsoid Height:			48.909
Grid Northing (Meters)			94,449.4691
Grid Easting (Meters)			508,821.8900

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	10	43.4168760	
Longitude	90	48	18.8984880	
Ellipsoid Height (M):			48.792	0.0100
Geoid Height (M):			-27.115	

Location Description

TO REACH THE STATION FROM THE CROSS-ST. FRANCIS COUNTY LINE, GO NORTH ON STATE HIGHWAY 1 FOR 3.38 KM (2.10 MI) TO THE JUNCTION OF COUNTY ROAD 652 ON THE LEFT, GO LEFT, WEST ON COUNTY ROAD 652 FOR 0.27 KM (0.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.35 METERS NORTH OF THE CENTER OF COUNTY ROAD 652, 10.40 METERS EAST OF THE CENTER OF A FEILD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 600.581 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	267	15.85	52.0
MK # 2	EAST END OF CMP	250	7.20	23.6
MK # 3	NONE			

AZ Mark Station	190006
Geodetic Azimuth	92 28 52.392901
Grid Azimuth	91 47 09.518922

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	MEM2

Comments

Elevations based on 3 wire from NGS point H 175

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190007	3/6/2000	AHTD	CROSS	1	R10071

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	99,598.8231	
Easting (M)	510,430.2820	
Elevation (M)*	80.752	
Northing (SFT)	326,767.1388	
Easting (SFT)	1,674,636.6835	
Elevation (SFT)*	264.935	

Convergence Angle	0	42	21.2524469
Scale Factor	0.999955478		
Elevation Adjust. Factor	0.9999873275		
Combined Adjust. Factor	0.9999428060		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	29.8634052
Longitude	90	47	12.8299452
Ellipsoid Height (M):	53.674		
Geoid Height (M):	-27.077		

Location Description

THE STATION IS LOCATED IN WYNNE AT THE STATE HIGHWAY 1 JUNCTION WITH THE RAILROAD TRACKS. THE STATION IS 30.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 18.75 METERS SOUTH OF THE CENTER OF COGBILL AVE., 7.35 METERS NORTH OF THE NORTH RAIL AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "190007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 665.917 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	67	17.50	57.4
MK # 2	NORTHWEST CORNER OF METAL RAILING	125	9.85	32.3
MK # 3	GUY POLE	290	24.50	80.4

AZ Mark Station	W 15 0FFSET
Geodetic Azimuth	272 43 07.99556
Grid Azimuth	272 00 46.81031

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	MEM2

Comments

Elevations based on 3 wire from NGS point W 15

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190008	1/7/2003	AHTD	CROSS	N/A	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,554.9651
Easting (M)	492,199.5140
Elevation (M)*	
Northing (SFT)	333,184.9147
Easting (SFT)	1,614,824.5722
Elevation (SFT)*	

Convergence Angle	0	35	22.2165924
Scale Factor	0.999953417		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	14	40.0237584
Longitude	90	59	12.9476328
Ellipsoid Height (M):	38.867		
Geoid Height (M):	-27.134		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-49 AND A RAILROAD CROSSING IN FAIROAKS, GO EAST ON HWY-64 FOR 2.45 MILES TO COUNTY ROAD 521 (BOECKMAN ROAD) ON THE RIGHT. TURN RIGHT (SOUTH) ON "BOECKMAN ROAD" AND GO 0.47 MILES TO THE STATION ON THE LEFT NEAR AN IRRIGATION WELL. 15.1 METERS NORTH OF THE CENTER OF A FIELD ROAD TO THE WELL, 9.90 METERS EAST OF THE CENTER OF THE COUNTY ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190008 2003"AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER WELL	133	7.40	24.3
MK # 2	POWER POLE TO WATER WELL	165	7.60	24.9
MK # 3	COMBINATION POLE	251	15.90	52.2

AZ Mark Station	190008A
Geodetic Azimuth	358 54 50
Grid Azimuth	358 19 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190008A	1/7/2003	AHTD	CROSS	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,342.2501
Easting (M)	492,176.4830
Elevation (M)*	
Northing (SFT)	335,767.8655
Easting (SFT)	1,614,749.0113
Elevation (SFT)*	
Convergence Angle	0 35 21.8729218
Scale Factor	0.999952694
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	5.5774908
Longitude	90	59	13.5382344
Ellipsoid Height (M):	38.799		
Geoid Height (M):	-27.141		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-49 AND A RAILROAD CROSSING IN FAIROAKS, GO EAST ON HWY-64 FOR 2.40 MILES TO THE STATION ON THE RIGHT. 29.0 METERS WEST OF THE CENTER OF COUNTY ROAD 521, 19.8 METERS SOUTH OF THE CENTER OF HWY-64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190008A 2003"AND SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	89	20.20	66.3
MK # 2				
MK # 3				

AZ Mark Station	190008
Geodetic Azimuth	178 54 50
Grid Azimuth	178 19 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190009	1/7/2003	AHTD	CROSS	193	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,986.5221
Easting (M)	497,204.2030
Elevation (M)*	
Northing (SFT)	334,600.7813
Easting (SFT)	1,631,244.1227
Elevation (SFT)*	
Convergence Angle	0 37 17.5117438
Scale Factor	0.999953067
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	14	52.3107204
Longitude	90	55	54.8116572
Ellipsoid Height (M):	39.356		
Geoid Height (M):	-27.122		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 SOUTH IN HAMLIN, GO SOUTH ON HWY-193 FOR 0.25 MILES TO THE STATION ON THE LEFT. 16.35 METERS EAST OF THE CENTER OF HWY-193 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190009 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	37	20.00	65.6
MK # 2				
MK # 3				

AZ Mark Station	190009A
Geodetic Azimuth	358 05 28
Grid Azimuth	357 28 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190009A	1/7/2003	AHTD	CROSS	193	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,385.8271
Easting (M)	497,186.5570
Elevation (M)*	
Northing (SFT)	335,910.8344
Easting (SFT)	1,631,186.2291
Elevation (SFT)*	
Convergence Angle	0 37 17.2052776
Scale Factor	0.999952703
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	5.2736148
Longitude	90	55	55.3383228
Ellipsoid Height (M):	38.935		
Geoid Height (M):	-27.126		

Location Description

THE STATION IS LOCATED IN THE SOUTHEAST CORNER OF THE JUNCTION OF HWY-64 AND HWY-193 IN HAMLIN ACROSS HWY-64 FROM THE "HAMLIN TRACTOR AND AUTO PARTS STORE". 31.3 METERS SOUTH OF THE CENTER OF HWY-64, 13.3 METERS EAST OF THE CENTER OF HWY-193 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190009A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	310	5.30	17.4
MK # 2	TELEPHONE PEDESTAL	15	2.80	9.2
MK # 3	WATER METER	100	6.70	22.0

AZ Mark Station	190009
Geodetic Azimuth	178 05 28
Grid Azimuth	177 28 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190010	1/7/2003	AHTD	CROSS	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,511.0292
Easting (M)	503,253.8970
Elevation (M)*	
Northing (SFT)	336,321.6016
Easting (SFT)	1,651,092.1604
Elevation (SFT)*	
Convergence Angle	0 39 36.8948273
Scale Factor	0.999952651
Elevation Adjust. Factor	
Combined Adjust. Factor	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	7.1340732
Longitude	90	51	55.2803076
Ellipsoid Height (M):	42.197		
Geoid Height (M):	-27.117		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 NORTH JUST EAST OF HAMLIN, GO EAST ON HWY-64 FOR 2.95 MILES TO THE STATION ON THE LEFT JUST PAST AN IRRIGATION WELL. 15.5 METERS NORTH OF THE CENTER OF HWY-64, 12.8 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190010 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER WELL	288	24.10	79.1
MK # 2				
MK # 3				

AZ Mark Station	190010A
Geodetic Azimuth	268 58 30
Grid Azimuth	268 18 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190010A	1/7/2003	AHTD	CROSS	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,491.8352
Easting (M)	502,601.4790
Elevation (M)*	
Northing (SFT)	336,258.6293
Easting (SFT)	1,648,951.6857
Elevation (SFT)*	

Convergence Angle	0	39	21.8724861
Scale Factor			0.999952661
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	6.7544568
Longitude	90	52	21.0963648
Ellipsoid Height (M):	42.884		
Geoid Height (M):	-27.117		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-193 NORTH JUST EAST OF HAMLIN, GO EAST ON HWY-64 FOR 2.55 MILES TO THE STATION ON THE LEFT NORTHWEST AND ACROSS HWY-64 FROM THE "ROLFE CHAPEL ASSEMBLY OF GOD" CHURCH. 15.5 METERS NORTH OF THE CENTER OF HWY-64, 10.3 METERS WEST OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190010A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	309	4.50	14.8
MK # 2				
MK # 3				

AZ Mark Station	190010
Geodetic Azimuth	88 58 15
Grid Azimuth	88 18 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190011	1/7/2003	AHTD	CROSS	N/A	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,398.5741
Easting (M)	509,018.3820
Elevation (M)*	
Northing (SFT)	335,952.6552
Easting (SFT)	1,670,004.4749
Elevation (SFT)*	
Convergence Angle	0 41 49.5484778
Scale Factor	0.999952815
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	1.2695040
Longitude	90	48	7.3135620
Ellipsoid Height (M):	48.396		
Geoid Height (M):	-27.112		

Location Description

TO REACH THE STATION FROM THE WESTERNMOST ENTRANCE TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 1 HEADQUARTERS IN WYNNE, GO SOUTH ACROSS THE PAVED PARKING LOT FOR 0.15 MILES TO A GRAVEL PARKING LOT, CONTINUE AHEAD (SOUTH) ABOUT 290 FEET TO THE PERIMETER FENCE AND THE STATION. 54.1 METERS EAST OF THE SOUTHWEST CORNER OF THE PERIEMETER FENCE, 0.85 METERS NORTH OF THE PERIMETER FENCE AND 0.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190011 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	190011A
Geodetic Azimuth	0 06 43
Grid Azimuth	359 24 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190011A	1/7/2003	AHTD	CROSS	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,823.8161
Easting (M)	509,014.0390
Elevation (M)*	
Northing (SFT)	337,347.8033
Easting (SFT)	1,669,990.2263
Elevation (SFT)*	

Convergence Angle	0	41	49.5676057
Scale Factor	0.999952430		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	15.0692976
Longitude	90	48	7.2806904
Ellipsoid Height (M):	47.273		
Geoid Height (M):	-27.117		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-64 AND HWY-1 NORTH ON THE WEST SIDE OF WYNNE, GO WEST ON HWY-64 FOR 0.45 MILES TO THE STATION ON THE RIGHT. 57.8 METERS EAST OF A GRAVEL DRIVEWAY, 16.8 METERS SOUTH OF THE CENTER OF HWY-64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "190011A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	275	21.80	71.5
MK # 2	FENCE CORNER	273	49.20	161.4
MK # 3				

AZ Mark Station	190011
Geodetic Azimuth	180 06 43
Grid Azimuth	179 24 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190012	6/5/2012	AHTD	CROSS	64	110588

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,859.7747	
Easting (M)	532,490.4745	
Elevation (M)*	65.383	
Northing (SFT)	344,027.4442	
Easting (SFT)	1,747,012.4984	
Elevation (SFT)*	214.510	

Convergence Angle	0	50	50.6303511
Scale Factor	0.999950918		
Elevation Adjust. Factor	0.9999897394		
Combined Adjust. Factor	0.9999406579		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	16	10.8625476
Longitude	90	32	37.4584596
Ellipsoid Height (M):	38.178		
Geoid Height (M):	-27.206		

Location Description

To reach from the intersection of I-55 and Hwy. 64 in Marion. Go West on Hwy. 64 for 21.5 miles to the station on the right. The station is 21.0 ft. South of a witness post, and 40.0 ft. North of the center of Hwy. 64. The station mark is a 2 1/2 in. cap stamped "190012 2012" set ontop of a 5/8 in. by 4.0 ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of Headwall	22	2.00	6.6
MK # 2	18" Concrete Pipe	92	6.60	21.7
MK # 3	Light pole	302	18.30	60.0

AZ Mark Station	190005
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire Digital levels ran by CLS on job 110588 tying from first order NGS mark C5 to third order mark Earle in September 12. *Note: Elevation from digital levels held fixed in final Static Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190013	1/14/2016	AHTD	CROSS	CR 652	012240,110574

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	94,457.7374	0.0020
Easting (M)	507,252.8870	0.0020
Elevation (M)*	71.800	0.0027
Northing (SFT)	309,900.0935	
Easting (SFT)	1,664,212.1801	
Elevation (SFT)*	235.564	

Convergence Angle	0	41	6.7256446
Scale Factor	0.999960797		
Elevation Adjust. Factor	0.9999887324		
Combined Adjust. Factor	0.9999495298		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	35	10	44.2986960
Longitude	90	49	20.9050680
Ellipsoid Height (M):	44.690		0.0100
Geoid Height (M):	-27.117		

Location Description

TO REACH FROM THE ST. FRANCIS AND CROSS COUNTY LINE ON HWY 1. GO NORTH ON HWY. 1 FOR 2.1 MILES TO COUNTY ROAD 652. TURN LEFT (WEST) ON COUNTY ROAD 652 AND GO 1.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12 FT. NORTH OF A WITNESS POST, 40 FT. WEST OF A GRAVEL FARM ROAD, AND 48.5 FT. NORTH OF THE CENTERLINE OF COUNTY ROAD 652. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "190013 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	270	17.70	58.1
MK # 2	18" CORREGATED METAL PIPE	123	9.10	29.9
MK # 3				

AZ Mark Station	190013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Three wire elevation based on NGS benchmarks J 175 - RV220 by crew S5102 in January 2016.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190013A	1/14/2016	AHTD	CROSS	CR 652	012240,110574

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	95,141.2982	0.0020
Easting (M)	507,259.1170	0.0020
Elevation (M)*	71.182	0.0030
Northing (SFT)	312,142.7425	
Easting (SFT)	1,664,232.6197	
Elevation (SFT)*	233.535	

Convergence Angle	0	41	7.0569431
Scale Factor	0.999960047		
Elevation Adjust. Factor	0.9999888294		
Combined Adjust. Factor	0.9999488769		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	35	11	6.4763160
Longitude	90	49	20.3357280
Ellipsoid Height (M):	44.072	0.0100	
Geoid Height (M):	-27.125		

Location Description

TO REACH FROM THE ST. FRANCIS AND CROSS COUNTY LINE ON HWY. 1. GO NORTH ON HWY. 1 FOR 2.1 MILES TO COUNTY ROAD 652. TURN LEFT (WEST) ON COUNTY RD. 652 AND GO 1.1 MILES TO A GRAVEL FARM RD. ON THE RIGHT (NORTH). GO NORTH ON THE GRAVEL FARM RD. FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 4 FT. EAST OF A WITNESS POST, AND 16 FT. WEST OF A GRAVEL FARM RD. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "190013A 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	271	1.30	4.3
MK # 2				
MK # 3				

AZ Mark Station	190013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Three wire elevation based on NGS benchmarks J 175 - RV220 by crew S5102 in January 2016.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190014	5/10/2017	AHTD	CROSS	CR 210	110622

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	122,541.6839	0.0020
Easting (M)	512,895.0166	0.0020
Elevation (M)*	78.006	0.0013
Northing (SFT)	402,038.8413	
Easting (SFT)	1,682,723.0670	
Elevation (SFT)*	255.925	

Convergence Angle	0	43	24.6322745
Scale Factor	0.999939471		
Elevation Adjust. Factor	0.9999877584		
Combined Adjust. Factor	0.9999272302		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	25	53.2986960
Longitude	90	45	23.9110200
Ellipsoid Height (M):	50.562	0.0100	
Geoid Height (M):	-27.443		

Location Description

To reach the station From poinsett and cross county line go south on hwy-1 for 1.1 miles to cross county road 210 go west on county road 210 for 0.25 of a mile to the sta on the right. Stamped 190014 the point is 11ft north of the sign post. 5ft ne of south end of 18in steel pipe.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	sign post		3.35	11.0
MK # 2	18" steel pipe		0.15	0.5
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARWY
Ref Mon # 3	TN45

Comments

Elevation by three wire using NGS P 242 by Crew S5113 in May 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190014A	5/10/2017	AHTD	CROSS	CR 210	110622

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	122,539.2260	0.0020
Easting (M)	512,485.2652	0.0020
Elevation (M)*	76.826	0.0000
Northing (SFT)	402,030.7773	
Easting (SFT)	1,681,378.7409	
Elevation (SFT)*	252.055	

Convergence Angle	0	43	15.1790718
Scale Factor	0.999939470		
Elevation Adjust. Factor	0.9999879436		
Combined Adjust. Factor	0.9999274143		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	25	53.3865360
Longitude	90	45	40.1564520
Ellipsoid Height (M):	49.387	0.0100	
Geoid Height (M):	-27.442		

Location Description

To reach From poinsett and cross county line go south on hwy-1 for 1.1 miles to cross county road 210 go west on county road 210 for 0.50 miles sta on the right 34ft east of sign post and pp 63ft ne of pp 14ft north of 36in cmp

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	sign post		10.36	34.0
MK # 2	power pole		10.36	34.0
MK # 3	36" cmp		4.27	14.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARWY
Ref Mon # 3	TN45

Comments

Elevation by three wire using NGS P 242 by Crew S5113 in May 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190015	12/4/2019	ARDOT	CROSS	364	RBORNE 2020, 01X237, 1108

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	109,738.0114	0.0020
Easting (M)	508,920.8393	0.0020
Elevation (M)*		
Northing (SFT)	360,032.1257	
Easting (SFT)	1,669,684.4536	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	18	59.4545184	
Longitude	90	48	7.6398480	
Ellipsoid Height (M):	47.911			0.0060
Geoid Height (M):	-27.298			0.0060

Convergence Angle	0	41	49.3586122
Scale Factor	0.999946791		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDALE, GO WEST ON HIGHWAY 364 1.0 MILE TO THE MARK ON THE RIGHT, NORTHEAST 21' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190015" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	40	5.03	16.5
MK # 2				
MK # 3				

AZ Mark Station	190015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC, ARWY

Comments

STATIC GPS DERIVED ELEV. 246.7459

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190015A	12/4/2019	ARDOT	CROSS	364	RBORNE 2020, 01X237, 1108

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	109,448.8868	0.0020
Easting (M)	509,302.6068	0.0020
Elevation (M)*		

Northing (SFT)	359,083.5561	
Easting (SFT)	1,670,936.9691	
Elevation (SFT)*		

Convergence Angle	0	41	58.0717300
Scale Factor	0.999947007		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	18	49.9221972	
Longitude	90	47	52.6662600	
Ellipsoid Height (M):	49.682			0.0060
Geoid Height (M):	-27.294			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDALE, GO WEST ON HIGHWAY 364 0.7 MILES TO THE MARK ON THE RIGHT, NORTHEAST 16.4' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190015A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	190015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC, ARWY

Comments

ELEV. 252.5579 U.S. FT. BASED ON DIGITAL LEVELS FROM GPS #190015 WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190016	12/4/2019	ARDOT	CROSS	364	RNE 2020, 01X224, 01X234,

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,750.5480	0.0020
Easting (M)	504,721.1391	0.0020
Elevation (M)*		
Northing (SFT)	363,354.0896	
Easting (SFT)	1,655,905.9372	
Elevation (SFT)*		

Convergence Angle	0	40	12.8862362
Scale Factor	0.999946028		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	19	33.9348396	
Longitude	90	50	53.4286788	
Ellipsoid Height (M):	42.964			0.0070
Geoid Height (M):	-27.308			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDALE, GO WEST ON HIGHWAY 364 3.9 MILES TO THE MARK ON THE RIGHT, NORTH 15.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	190016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC, ARWY

Comments

STATIC GPS DERIVED ELEV. 230.5524

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190016A	12/4/2019	ARDOT	CROSS	364	RNE 2020, 01X224, 01X234,

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,790.0317	0.0020
Easting (M)	505,209.2748	0.0020
Elevation (M)*		
Northing (SFT)	363,483.6290	
Easting (SFT)	1,657,507.4291	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	19	35.0302656	
Longitude	90	50	34.0837044	
Ellipsoid Height (M):	42.421			0.0070
Geoid Height (M):	-27.309			0.0070

Convergence Angle	0	40	24.1430599
Scale Factor	0.999946005		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 364 AND STATE HIGHWAY 1, IN VANNDALE, GO WEST ON HIGHWAY 364 3.6 MILES TO THE MARK ON THE RIGHT, NORTH 31' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	190016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC, ARWY

Comments

ELEV. 228.7634 U.S. FT. BASED ON DIGITAL LEVELS FROM GPS #190016 WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190017	12/4/2019	ARDOT	CROSS	42	110713, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	114,772.8505	0.0040
Easting (M)	523,308.9833	0.0030
Elevation (M)*		
Northing (SFT)	376,550.5937	
Easting (SFT)	1,716,889.5560	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	21	36.7633620	
Longitude	90	38	35.3100048	
Ellipsoid Height (M):	37.688			0.0180
Geoid Height (M):	-27.405			0.0180

Convergence Angle	0	47	22.3968489
Scale Factor	0.999943538		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 163 AND STATE HIGHWAY 42, IN BIRDEYE, GO EAST ON HIGHWAY 42 3.0 MILES TO THE MARK ON THE RIGHT, SOUTH 37.8' OF THE C/L OF THE HIGHWAY AND 17' EAST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	97	23.93	78.5
MK # 2				
MK # 3				

AZ Mark Station	190017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

STATIC GPS DERIVED ELEV. 213.5599

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190017A	12/4/2019	ARDOT	CROSS	42	110713, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	114,932.3106	0.0040
Easting (M)	523,731.7184	0.0030
Elevation (M)*	65.393	

Northing (SFT)	377,073.7557	
Easting (SFT)	1,718,276.4795	
Elevation (SFT)*	214.542	

Convergence Angle	0	47	32.1909047
Scale Factor	0.999943444		
Elevation Adjust. Factor	0.9999897379		
Combined Adjust. Factor	0.9999331824		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	21	41.7479472	
Longitude	90	38	18.4788132	
Ellipsoid Height (M):	37.976			0.0190
Geoid Height (M):	-27.409			0.0190

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 163 AND STATE HIGHWAY 42, IN BIRDEYE, GO EAST ON HIGHWAY 42 3.3 MILES TO THE MARK ON THE LEFT, NORTH 31.0' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190017A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	190017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #190017 WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190018	12/4/2019	ARDOT	CROSS	CR 310	110713, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,632.2277	0.0030
Easting (M)	520,551.1374	0.0020
Elevation (M)*		

Northing (SFT)	408,897.5670	
Easting (SFT)	1,707,841.5233	
Elevation (SFT)*		

Convergence Angle	0	46	21.8984904
Scale Factor	0.999938690		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	26	57.8860224	
Longitude	90	40	19.2770940	
Ellipsoid Height (M):	45.002			0.0100
Geoid Height (M):	-27.503			0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 163 AND STATE HIGHWAY 373, IN BIRDEYE, GO SOUTH ON HIGHWAY 163 1.1 MILES TO CR 310 (BAY VILLAGE ROAD), AND TURN LEFT (EAST) AND GO 0.1 MILES TO THE MARK ON THE LEFT, NORTH 31.0' OF THE C/L OF THE COUNTY ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	190018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

STATIC GPS DERIVED ELEV. 237.8781

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190018A	12/4/2019	ARDOT	CROSS	CR 310	110713, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,630.3934	0.0020
Easting (M)	521,041.2757	0.0020
Elevation (M)*	70.744	
Northing (SFT)	408,891.5490	
Easting (SFT)	1,709,449.5854	
Elevation (SFT)*	232.101	

Convergence Angle	0	46	33.2072137
Scale Factor	0.999938693		
Elevation Adjust. Factor	0.9999888980		
Combined Adjust. Factor	0.9999275917		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	26	57.6115692	
Longitude	90	39	59.8429296	
Ellipsoid Height (M):	43.240			0.0100
Geoid Height (M):	-27.506			0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 163 AND STATE HIGHWAY 373, IN BIRDEYE, GO SOUTH ON HIGHWAY 163 1.1 MILES TO CR 310 (BAY VILLAGE ROAD), AND TURN LEFT (EAST) AND GO 0.4 MILES TO THE MARK ON THE RIGHT, SOUTH 19.3' OF THE C/L OF THE COUNTY ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 190018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	260	13.02	42.7
MK # 2				
MK # 3				

AZ Mark Station	190018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #190018 WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190019	4/6/2021	ARDOT	CROSS	CR 244	110804

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,446.3865	0.0030
Easting (M)	500,699.5860	0.0030
Elevation (M)*		
Northing (SFT)	362,356.1864	
Easting (SFT)	1,642,711.8917	
Elevation (SFT)*		

Convergence Angle	0	38	40.1545265
Scale Factor	0.999946211		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	19	25.5627120	
Longitude	90	53	32.7891336	
Ellipsoid Height (M):	41.518	0.0090		
Geoid Height (M):	-27.307	0.0090		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 193 AND STATE HIGHWAY 364, NORTHEAST OF FAIR OAKS, GO EAST ON 364 1.205 MIILES TO CR 244 AND TURN RIGHT (SOUTH) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, 13' WEST OF THE C.L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 190019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	156	22.07	72.4
MK # 2				
MK # 3				

AZ Mark Station	190019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190019A	4/6/2021	ARDOT	CROSS	CR 244	110804

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	109,955.5595	0.0030
Easting (M)	500,709.4042	0.0030
Elevation (M)*		
Northing (SFT)	360,745.8648	
Easting (SFT)	1,642,744.1036	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	19	9.6328884	
Longitude	90	53	32.6190192	
Ellipsoid Height (M):	40.501	0.0090		
Geoid Height (M):	-27.301	0.0090		

Convergence Angle	0	38	40.2535159
Scale Factor	0.999946563		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 193 AND STATE HIGHWAY 364, NORTHEAST OF FAIR OAKS, GO EAST ON 364 1.205 MIILES TO CR 244 AND TURN RIGHT (SOUTH) AND GO 0.35 MILES TO THE MARK ON THE LEFT, 22.5' EAST OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 190019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	12" CMP	292	2.50	8.2
MK # 2	POWER POLE	186	14.72	48.3
MK # 3				

AZ Mark Station	190019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARPG
Ref Mon # 3	AROC, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190020	3/12/2021	ARDOT	CROSS	64	110808

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	102,334.3323	0.0025
Easting (M)	512,037.2271	0.0023
Elevation (M)*	102.028	
Northing (SFT)	335,741.8886	
Easting (SFT)	1,679,908.8026	
Elevation (SFT)*	334.737	

Convergence Angle	0	42	59.0151430
Scale Factor	0.999952907		
Elevation Adjust. Factor	0.9999839887		
Combined Adjust. Factor	0.9999368965		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	14	57.9766920
Longitude	90	46	7.9343400
Ellipsoid Height (M):	74.802		0.0128
Geoid Height (M):	-27.211		

Location Description

FROM THE INTERSECTION OF U.S. HWY. 64 AND STATE HWY. 1 SOUTH IN WYNNE, CROSS COUNTY, AR. TRAVEL SE ALONG U.S. HWY. 64, 0.7 MILES TO THE STATION ON THE LEFT, 11.3 METERS NORTH OF THE CENTERLINE OF U.S. HWY 64, 18.3 METERS WEST OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTH. A STANDARD 3" ALUMINUM CAP STAMPED 190020, 2021 SET FLUSH WITH THE GROUND, ON TOP OF A 5/8" REBAR 4' IN LENGTH.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	79	11.90	39.0
MK # 2	SE COR. BRICK SIGN POST (CITY OF WYNN E)	305	8.80	28.9
MK # 3				

AZ Mark Station	190020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190020A	4/12/2021	ARDOT	CROSS	64	110808

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	102,230.3920	0.0026
Easting (M)	512,449.5706	0.0025
Elevation (M)*	107.536	
Northing (SFT)	335,400.8778	
Easting (SFT)	1,681,261.6329	
Elevation (SFT)*	352.807	

Convergence Angle	0	43	8.4759709
Scale Factor	0.999953007		
Elevation Adjust. Factor	0.9999831244		
Combined Adjust. Factor	0.9999361322		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	14	54.4364880
Longitude	90	45	51.6758040
Ellipsoid Height (M):	80.311		0.0132
Geoid Height (M):	-27.210		

Location Description

FROM THE INTERSECTION OF U.S. HWY. 64 AND STATE HWY. 1 SOUTH IN WYNNE, CROSS COUNTY, AR. TRAVEL SE ALONG U.S. HWY. 64, 1.0 MILES TO THE STATION ON THE LEFT, 14.9 METERS NORTH OF THE CENTERLINE OF U.S. HWY 64, 32.3 METERS EAST OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTH. A STANDARD 3" ALUMINUM CAP STAMPED 190020A, 2021 SET FLUSH WITH THE GROUND, ON TOP OF A 5/8" REBAR 4' IN LENGTH.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	309	18.60	61.0
MK # 2	WATER VALVE	123	21.30	69.9
MK # 3				

AZ Mark Station	190020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM C333 AND E333 IN APRIL 2021 BY S5101 DURING JOB 110808.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190021	3/13/2024	ARDOT	CROSS	364	110839

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	112,319.4957	0.0010
Easting (M)	515,338.0213	0.0010
Elevation (M)*	92.151	0.0158
Northing (SFT)	368,501.5455	
Easting (SFT)	1,690,738.1582	
Elevation (SFT)*	302.333	

Convergence Angle	0	44	17.9504561
Scale Factor	0.999945041		
Elevation Adjust. Factor	0.9999855387		
Combined Adjust. Factor	0.9999305805		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD18		
Latitude	35	20	20.6083212
Longitude	90	43	52.2831432
Ellipsoid Height (M):	64.810	0.0070	
Geoid Height (M):	-27.334		

Location Description

From the intersection of Highway 1 North and Arkansas State Highway 64 in Wynne in Cross County Arkansas, travel North along State Highway 1 North for 4.2 miles to the Intersection of Highway 1 and Highway 1B to the right, then travel East along Highway 1B for 0.80 miles to the intersection of 1B and Highway 364 on the Right. Then travel 3.2 miles to the station on the left. The Station is a standard 2.5 inch AHTD GPS cap stamped 190021 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 23 feet (7.01 Meters) North West of the centerline of Highway 364 and 4 feet (1.22 Meters) South East of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	30" CMP CULVERT	220	10.36	34.0
MK # 2	2.5'X1.5' IN GROUND TELEPHONE BOX	320	4.27	14.0
MK # 3	23' NW OF CL HWY 364	140	7.01	23.0

AZ Mark Station	190021A
Geodetic Azimuth	53 30 32.8
Grid Azimuth	52 46 10.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARWM
Ref Mon # 3	ARJB,ARSC

Comments

ELEV WAS EST BYA STATIC OBS AT GPS 190021A HOLDING NGS BM E 333. 3WR LEVELS RAN FROM STATIC DERIVED ELEV AT 190021A TO 190021 BY CREW S5101 DURING JOB 01X464 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190021A	3/13/2024	ARDOT	CROSS	364	110839

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	112,583.0703	0.0010
Easting (M)	515,684.8864	0.0010
Elevation (M)*	92.242	0.0000
Northing (SFT)	369,366.2898	
Easting (SFT)	1,691,876.1648	
Elevation (SFT)*	302.630	

Convergence Angle	0	44	26.0215357
Scale Factor	0.999944868		
Elevation Adjust. Factor	0.9999855245		
Combined Adjust. Factor	0.9999303933		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD18			
Latitude	35	20	29.0152860	
Longitude	90	43	38.4129048	
Ellipsoid Height (M):	64.903			0.0070
Geoid Height (M):	-27.339			

Location Description

From the intersection of Highway 1 North and Arkansas State Highway 64 in Wynne in Cross County Arkansas, travel North along State Highway 1 North for 4.2 miles to the Intersection of Highway 1 and Highway 1B to the right, then travel East along Highway 1B for 0.80 miles to the intersection of 1B and Highway 364 on the Right. Then travel 3.4 miles to the station on the left. The Station is a standard 2.5 inch AHTD GPS cap stamped 190021A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 33 feet (10.06 Meters) East of the centerline of Highway 364 and 4 feet (1.22 Meters) west of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL GRAVEL DW	190	5.79	19.0
MK # 2	POWER POLE	155	10.67	35.0
MK # 3	WATER METER	30	19.81	65.0

AZ Mark Station	190021
Geodetic Azimuth	233 30 32.8
Grid Azimuth	232 46 10.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARWM
Ref Mon # 3	ARJB,ARSC

Comments

ELEV WAS EST BYA STATIC OBS AT GPS 190021A HOLDING NGS BM E 333.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190022	3/13/2024	ARDOT	CROSS	350	110840

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	100,919.4024	0.0020
Easting (M)	505,081.9210	0.0020
Elevation (M)*	68.787	0.0000
Northing (SFT)	331,099.7394	
Easting (SFT)	1,657,089.6025	
Elevation (SFT)*	225.679	

Convergence Angle	0	40	18.5423522
Scale Factor	0.999954144		
Elevation Adjust. Factor	0.9999892052		
Combined Adjust. Factor	0.9999433497		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	14	14.7997248	
Longitude	90	50	43.7085816	
Ellipsoid Height (M):	41.588			0.0060
Geoid Height (M):	-27.199			

Location Description

From the intersection of U. S. Highway 1 North and Arkansas State Highway 64 in Wynne in Cross County Arkansas, travel West along State Highway 64 for 2.4 miles to the Intersection of Highway 64 and Highway 350 on the Left, then travel South along Highway 350 for 1 mile to Cross County Road 607 on the right. Travel .20 of a mile to the station on the right. The Station is a standard 2.5 inch AHTD GPS cap stamped 190022A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 23 feet (7.01Meters) North of the centerline of Cross County Road 607 and 6 feet (1.83 Meters) North of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	70	16.46	54.0
MK # 2	TELEPHONE BOX	20	11.89	39.0
MK # 3	WEST END 18" CMP	260	3.96	13.0

AZ Mark Station	190022A
Geodetic Azimuth	84 09 43.3
Grid Azimuth	83 29 19.6

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARWM
Ref Mon # 3	ARMA

Comments

ELEV WAS EST BY STATIC OBS HOLDING NGS BM E 333 DURING JOB 01X465 BY CREW S5101 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
190022A	3/13/2024	ARDOT	CROSS	350	110840

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	100,970.1276	0.0020
Easting (M)	505,526.3576	0.0020
Elevation (M)*	69.411	0.0061
Northing (SFT)	331,266.1603	
Easting (SFT)	1,658,547.7249	
Elevation (SFT)*	227.725	

Convergence Angle	0	40	28.7842108
Scale Factor	0.999954101		
Elevation Adjust. Factor	0.9999891073		
Combined Adjust. Factor	0.9999432088		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	14	16.2761892	
Longitude	90	50	26.1078360	
Ellipsoid Height (M):	42.208			0.0060
Geoid Height (M):	-27.199			

Location Description

From the intersection of U. S. Highway 1 North and Arkansas State Highway 64 in Wynne in Cross County Arkansas, travel West along State Highway 64 for 2.4 miles to the Intersection of Highway 64 and Highway 350 on the Left, then travel South along Highway 350 for 1 mile to Cross County Road 607 on the right. Travel .50 of a mile to the station on the left. The Station is a standard 2.5 inch AHTD GPS cap stamped 190022 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 14 feet (4.27Meters) South of the centerline of a gravel drive way and 2 feet (.61 Meters) South of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL COUNTY ROAD 607	340	4.27	14.0
MK # 2				
MK # 3				

AZ Mark Station	190022
Geodetic Azimuth	264 09 43.3
Grid Azimuth	263 29 19.6

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARWM
Ref Mon # 3	ARMA

Comments

ELEV WAS EST BY STATIC OBS ON GPS 190022. 3WR LEVELS WERE RAN FROM 190022 HOLDING THE STATIC DERIVED ELEV TO 190022A DURING JOB 01X465 BY CREW S5101 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200001	1/6/1997	AHTD	DALLAS	273	7810

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	527,424.5022	
Easting (M)	355,024.8320	
Elevation (M)*	120.567	
Northing (SFT)	1,730,391.8876	
Easting (SFT)	1,164,777.3030	
Elevation (SFT)*	395.560	

Convergence Angle	0	16	18.8507259
Scale Factor	0.999925789		
Elevation Adjust. Factor	0.9999810795		
Combined Adjust. Factor	0.9999068699		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	48	52.4975796
Longitude	92	29	8.9137284
Ellipsoid Height (M):	93.793		
Geoid Height (M):	-26.774		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 & 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO WEST ON HWY-273 FOR 3.46 KM. (2.15 MI.) TO THE STATION ON THE RIGHT. 15.0 METERS NORTH OF THE CENTER OF HWY-273 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200001 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	101	29.85	97.9
MK # 2	GUY POLE	142	37.00	121.4
MK # 3				

AZ Mark Station	200001A
Geodetic Azimuth	269 09 19.0642
Grid Azimuth	269 25 37.96743

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	TULIP
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200001A	1/6/1997	AHTD	DALLAS	273	7810

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	527,416.0221
Easting (M)	354,176.6800
Elevation (M)*	108.852
Northing (SFT)	1,730,364.0658
Easting (SFT)	1,161,994.6576
Elevation (SFT)*	357.125
Convergence Angle	0 16 37.3089396
Scale Factor	0.999925797
Elevation Adjust. Factor	0.9999829179
Combined Adjust. Factor	0.9999087161

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 48 52.0904556
Longitude	92 29 41.8930404
Ellipsoid Height (M):	82.072
Geoid Height (M):	-26.780

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 & 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO WEST ON HWY-273 FOR 4.35 KM. (2.70 MI.) TO THE STATION ON THE LEFT. 21.20 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 10.40 METERS SOUTH OF THE CENTER OF HWY-273 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200001A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	95	7.65	25.1
MK # 2	TELEPHONE JUNCTION BOX	112	6.60	21.7
MK # 3	EAST END OF 0.45m METAL PIPE	280	17.55	57.6

AZ Mark Station	200001
Geodetic Azimuth	89 09 00.71101
Grid Azimuth	89 25 37.96743

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT
Ref Mon # 2	TULIP
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200002	1/6/1997	AHTD	Dallas	79	001914,7810,070288,070287

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	527,312.5251	
Easting (M)	358,387.2290	
Elevation (M)*	88.498	
Northing (SFT)	1,730,024.5094	
Easting (SFT)	1,175,808.7671	
Elevation (SFT)*	290.346	

Convergence Angle	0	15	5.6609600
Scale Factor			0.999925848
Elevation Adjust. Factor			0.9999861120
Combined Adjust. Factor			0.9999119611

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	48	49.3615728	
Longitude	92	26	58.1454888	
Ellipsoid Height (M):	62.520			
Geoid Height (M):	-25.995			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 & 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO NORTH ON U.S. 167&79 FOR 53.0 METERS TO THE STATION ON THE RIGHT NEAR THE RIGHT OF WAY FENCE. 53.0 METERS NORTH OF THE CENTER OF HWY-79B, 24.10 METERS SOUTHWEST OF THE CENTER OF A PAVED DRIVEWAY, 18.90 METERS SOUTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-167 AND 0.95 METERS WEST-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fire hydrant	183	9.40	30.8
MK # 2	Concrete pipe	230	30.20	99.1
MK # 3				

AZ Mark Station	200002A
Geodetic Azimuth	031 31 04
Grid Azimuth	031 46 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200002A	1/6/1997	AHTD	Dallas	79	001914,7810,070287

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	527,618.7231	
Easting (M)	358,576.8540	
Elevation (M)*	87.359	
Northing (SFT)	1,731,029.0940	
Easting (SFT)	1,176,430.8952	
Elevation (SFT)*	286.610	

Convergence Angle	0	15	1.5631383
Scale Factor			0.999925664
Elevation Adjust. Factor			0.9999862907
Combined Adjust. Factor			0.9999119557

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	48	59.3271720
Longitude	92	26	50.8239060
Ellipsoid Height (M):	61.398		
Geoid Height (M):	-25.995		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167-79 & 79B AND STATE HIGHWAY 273 ON THE WEST SIDE OF FORDYCE GO NORTHERLY ON U.S. HWY-167&79 FOR 0.41 KM. (0.25 MI.) TO THE "UNITED PENTECOSTAL CHURCH" AND THE STATION ON THE LEFT. 61.7 FEET NORTHWEST OF THE CENTER OF THE SOUTHBOUND LANE OF HWY-167, 60.7 feet SOUTHEAST OF THE ENTRANCE TO THE CHURCH, 57.4 Feet WEST OF THE CENTER OF A PAVED STREET AND 1.65 feet SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 inch CAP STAMPED "200002A 1997" SET ON TOP OF AN IRON ROD 4 feet LONG by 5/8 inch and DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Guy pole	320	27.40	89.9
MK # 2	Southeast end of a 12 inch concrete pipe	351	15.65	51.3
MK # 3				

AZ Mark Station	200002
Geodetic Azimuth	211 31 08
Grid Azimuth	211 46 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation derived from combining 3-Wire levels from Job #070268 and digital levels from Job #'s 070283, 070284, 070285, 070286, & 070287 constraining GPS Monument #070004 at North end of Ouachita River Bridge & 2nd Order NGS BM U 11 at Fordyce. **Note: Elev. on GPS Monument #070004 was re-established by NGS 1st Order Level Run from NGS 1st Order BM's X 198 & Y 198 and NGS River Crossing in April 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200003	1/7/1997	AHTD	Dallas	167	001914,RX0028,070288

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	531,133.7621
Easting (M)	362,086.4250
Elevation (M)*	63.062
Northing (SFT)	1,742,561.3512
Easting (SFT)	1,187,945.2127
Elevation (SFT)*	206.895
Convergence Angle	0 13 45.4853370
Scale Factor	0.999923717
Elevation Adjust. Factor	0.9999901037
Combined Adjust. Factor	0.9999138214

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 50 53.8958148
Longitude	92 24 34.8956100
Ellipsoid Height (M):	37.119
Geoid Height (M):	-25.980

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 2.31 KM (1.44 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.55 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 8.85 METERS SOUTH OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200003 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fire hydrant	287	4.92	16.1
MK # 2	Telephone junction box	354	18.75	61.5
MK # 3	Combination pole	009	19.25	63.2

AZ Mark Station	200003A
Geodetic Azimuth	176 18 57
Grid Azimuth	176 32 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200003A	1/7/1997	AHTD	Dallas	167	001914,RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	530,773.2721	
Easting (M)	362,108.1880	
Elevation (M)*	64.645	
Northing (SFT)	1,741,378.6435	
Easting (SFT)	1,188,016.6135	
Elevation (SFT)*	212.089	

Convergence Angle	0	13	44.9801082
Scale Factor	0.999923901		
Elevation Adjust. Factor	0.9999898552		
Combined Adjust. Factor	0.9999137570		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	50	42.1978020
Longitude	92	24	33.9929172
Ellipsoid Height (M):	38.714		
Geoid Height (M):	-25.979		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 1.95 KM (1.21 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.75 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Guy pole	114	1.00	3.3
MK # 2	Combination pole	173	16.55	54.3
MK # 3	Gas meter	276	29.60	97.1

AZ Mark Station	200003
Geodetic Azimuth	356 18 58
Grid Azimuth	356 32 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200004	1/7/1997	AHTD	DALLAS	167	RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	533,833.1341	
Easting (M)	362,123.1390	
Elevation (M)*	72.360	
Northing (SFT)	1,751,417.5408	
Easting (SFT)	1,188,065.6652	
Elevation (SFT)*	237.401	

Convergence Angle	0	13	44.9210297
Scale Factor			0.999922434
Elevation Adjust. Factor			0.9999886445
Combined Adjust. Factor			0.9999110794

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	52	21.5170680
Longitude	92	24	33.8873616
Ellipsoid Height (M):	45.644		
Geoid Height (M):	-26.716		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 5.07 KM (3.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.80 METERS EAST-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 167, 12.85 METERS SOUTH-SOUTHEAST OF THE CENTER OF A GRAVEL ENTRANCE TO FPF, 11.15 METERS NORTH-NORTHWEST A GRAVEL DRIVE WAY AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	348	23.85	78.2
MK # 2	GUY POLE	49	11.20	36.7
MK # 3	GUY POLE	158	5.60	18.4

AZ Mark Station	200004A
Geodetic Azimuth	171 48 50.01921
Grid Azimuth	172 02 34.93711

Area Reference Monuments (used for Processing)

Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

Comments

ELEVATION BY 3-WIRE LEVELING USING USC&GS BENCH MARK "HEYS" ELEVATION = 69.818 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200004A	1/7/1997	AHTD	DALLAS	167	RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	533,359.0731	
Easting (M)	362,189.4010	
Elevation (M)*	72.910	
Northing (SFT)	1,749,862.2257	
Easting (SFT)	1,188,283.0598	
Elevation (SFT)*	239.206	

Convergence Angle	0	13	43.4367052
Scale Factor	0.999922646		
Elevation Adjust. Factor	0.9999885582		
Combined Adjust. Factor	0.9999112051		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	52	6.1385592
Longitude	92	24	31.2353172
Ellipsoid Height (M):	46.194		
Geoid Height (M):	-26.716		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 4.59 KM (2.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	159	1.25	4.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	200004
Geodetic Azimuth	351 48 51.49724
Grid Azimuth	352 02 34.93711

Area Reference Monuments (used for Processing)

Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

Comments

ELEVATION BY 3-WIRE LEVELING USING USC&GS BENCH MARK "HEYS" ELEVATION = 69.818 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200005	1/7/1997	AHTD	DALLAS	167	RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	538,589.9771	
Easting (M)	361,107.9390	
Elevation (M)*	63.632	
Northing (SFT)	1,767,023.9499	
Easting (SFT)	1,184,734.9632	
Elevation (SFT)*	208.766	

Convergence Angle	0	14	7.4564932
Scale Factor	0.999920612		
Elevation Adjust. Factor	0.9999900142		
Combined Adjust. Factor	0.9999106270		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	54	55.7809416
Longitude	92	25	14.1515004
Ellipsoid Height (M):	36.914		
Geoid Height (M):	-26.721		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79, LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 9.93 KM (6.17 MI) TO THE STATION ON THE LEFT. THE STATION IS 27.50 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL ROAD TO BARN, 13.70 METERS WEST-SOUTHWEST OF THE CENTER OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200005 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	315	10.10	33.1
MK # 2	GATE POST	188	28.00	91.9
MK # 3	NORTH END OF 0.50 METER IN DIAMETER RCP	155	24.40	80.1

AZ Mark Station	200005A
Geodetic Azimuth	168 06 35.74379
Grid Azimuth	168 20 43.19683

Area Reference Monuments (used for Processing)

Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200005A	1/7/1997	AHTD	DALLAS	167	RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	538,104.8351	
Easting (M)	361,208.0060	
Elevation (M)*	63.359	
Northing (SFT)	1,765,432.2798	
Easting (SFT)	1,185,063.2664	
Elevation (SFT)*	207.870	

Convergence Angle	0	14	5.2327416
Scale Factor	0.999920773		
Elevation Adjust. Factor	0.9999900570		
Combined Adjust. Factor	0.9999108308		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	54	40.0475844
Longitude	92	25	10.1783208
Ellipsoid Height (M):	36.628		
Geoid Height (M):	-26.720		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND U.S. HIGHWAY 79 , LOCATED ON THE NORTH SIDE OF FORDYCE, GO NORTH ON U.S. HIGHWAY 167 FOR 9.43 KM (5.86 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.063 METERS NORTHWEST OF THE CENTER OF GRAVEL ROAD, 14.06 METERS WEST-SOUTWEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.36 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDAR 64mm CAP STAMPED "200005A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A 0.5O METER IN DIAMETE R RCP	145	12.72	41.7
MK # 2	TELEPHONE JUNCTION BOX	175	27.69	90.9
MK # 3	POWER POLE	251	1.36	4.5

AZ Mark Station	200005
Geodetic Azimuth	348 06 37.9606
Grid Azimuth	348 20 43.19683

Area Reference Monuments (used for Processing)

Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200006	1/7/1997	AHTD	Dallas	167	01914,070224,RX0028, 07029

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	555,984.7769	
Easting (M)	362,194.1910	
Elevation (M)*	56.717	
Northing (SFT)	1,824,093.3889	
Easting (SFT)	1,188,298.7750	
Elevation (SFT)*	186.080	

Convergence Angle	0	13	45.3039287
Scale Factor	0.999918688		
Elevation Adjust. Factor	0.9999910993		
Combined Adjust. Factor	0.9999097880		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	4	20.5159584
Longitude	92	24	34.5714876
Ellipsoid Height (M):	30.739		
Geoid Height (M):	-25.994		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERDIAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 27.12 KM (16.85 MI) TO THE MARKS MEMORIAL CHURCH OF GOD IN CHRIST CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 52.145 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD, 38.083 METERS SOUTH EAST OF THE CENTER OF THE CHURCH FRONT DOORS, 26.476 METERS SOUTH OF A LIGHT POLE, 19.900 METERS NORTH OF A GRAVEL ENTRANCE TO THE CHURCH, 15.271 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200006 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITHE THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Light pole	287	27.63	90.6
MK # 2	Power pole	227	28.41	93.2
MK # 3	Light pole	198	25.82	84.7

AZ Mark Station	200006A
Geodetic Azimuth	177 11 31
Grid Azimuth	177 25 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200006A	1/7/1997	AHTD	Dallas	167	001914,070244,RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	555,555.9510
Easting (M)	362,213.5050
Elevation (M)*	57.668
Northing (SFT)	1,822,686.4826
Easting (SFT)	1,188,362.1410
Elevation (SFT)*	189.201

Convergence Angle	0	13	44.8448731
Scale Factor			0.999918646
Elevation Adjust. Factor			0.9999909500
Combined Adjust. Factor			0.9999095968

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	4	6.6000036
Longitude	92	24	33.7512924
Ellipsoid Height (M):	31.676		
Geoid Height (M):	-25.993		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERDIAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 27.55 KM (17.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.481 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 4.547 METERS NORTH OF THE CENTER OF A LOG ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200006A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Triangle blaze in pine tree	030	13.18	43.2
MK # 2	Triangle blaze in pine tree	147	16.38	53.7
MK # 3	Triangle blaze in pine tree	254	36.96	121.3

AZ Mark Station	200006
Geodetic Azimuth	357 11 32
Grid Azimuth	357 25 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200007	6/16/1999	AHTD	DALLAS	7	070160

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	539,083.0441	
Easting (M)	320,179.9050	
Elevation (M)*	49.387	
Northing (SFT)	1,768,641.6205	
Easting (SFT)	1,050,456.9050	
Elevation (SFT)*	162.031	

Convergence Angle	0	28	59.3359179	
Scale Factor	0.999920536			
Elevation Adjust. Factor	0.9999922496			
Combined Adjust. Factor	0.9999127862			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	55	3.4546224	
Longitude	92	51	47.6735040	
Ellipsoid Height (M):	23.055			
Geoid Height (M):	-26.332			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 7, LOCATED IN SPARKMAN, GO NORTH ON STATE HIGHWAY 7 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.56 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200007 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 282.239 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE BRACE POST	315	9.41	30.9
MK # 2	WOODEN FENCE POST	130	6.40	21.0
MK # 3	NONE			

AZ Mark Station	200007A
Geodetic Azimuth	332 16 51.93900
Grid Azimuth	332 45 51.27920

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	HOPEPORT
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200007A	6/16/1999	AHTD	DALLAS	7	070160

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	539,333.9701	
Easting (M)	320,050.7490	
Elevation (M)*	48.267	
Northing (SFT)	1,769,464.8669	
Easting (SFT)	1,050,033.1657	
Elevation (SFT)*	158.356	

Convergence Angle	0	29	2.1963656
Scale Factor			0.999920457
Elevation Adjust. Factor			0.9999924254
Combined Adjust. Factor			0.9999128830

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	55	11.5635432	
Longitude	92	51	52.7842692	
Ellipsoid Height (M):	21.933			
Geoid Height (M):	-26.334			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 7, LOCATED IN SPARKMAN, GO NORTH ON STATE HIGHWAY 7 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.47 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 10.43 METERS WEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 282.239 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	200007
Geodetic Azimuth	152 16 49.08710
Grid Azimuth	152 45 51.27920

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	HOPEPORT
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200008	6/28/2000	AHTD	DALLAS	229	070161

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	560,522.6544	
Easting (M)	350,409.4351	
Elevation (M)*	83.746	
Northing (SFT)	1,838,981.4086	
Easting (SFT)	1,149,634.9550	
Elevation (SFT)*	274.757	

Convergence Angle	0	18	3.0821228
Scale Factor			0.999919401
Elevation Adjust. Factor			0.9999868577
Combined Adjust. Factor			0.9999062598

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	46.0320372
Longitude	92	32	15.1440864
Ellipsoid Height (M):	58.169		
Geoid Height (M):	-26.095		

Location Description

TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 9.90 KM (6.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 229 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 396.360 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	200008A
Geodetic Azimuth	14 45 37.812177
Grid Azimuth	15 03 40.896565

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	300001

Comments

ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200008A	6/28/2000	AHTD	DALLAS	229	070161

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	560,905.3591	
Easting (M)	350,512.4199	
Elevation (M)*	89.569	
Northing (SFT)	1,840,236.9990	
Easting (SFT)	1,149,972.8310	
Elevation (SFT)*	293.861	

Convergence Angle	0	18	0.8767248
Scale Factor			0.999919485
Elevation Adjust. Factor			0.9999859439
Combined Adjust. Factor			0.9999054300

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	6	58.4708976	
Longitude	92	32	11.2036992	
Ellipsoid Height (M):	63.984			
Geoid Height (M):	-26.095			

Location Description

TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 9.50 KM (5.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 229 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 396.360 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	219	13.30	43.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	200008
Geodetic Azimuth	194 45 40.02214
Grid Azimuth	195 03 40.89657

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	300001

Comments

ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200009	6/28/2000	AHTD	DALLAS	229	070161

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	563,171.6103	
Easting (M)	350,156.8955	
Elevation (M)*	80.471	
Northing (SFT)	1,847,672.1915	
Easting (SFT)	1,148,806.4147	
Elevation (SFT)*	264.012	

Convergence Angle	0	18	8.9030271
Scale Factor	0.999920055		
Elevation Adjust. Factor	0.9999873716		
Combined Adjust. Factor	0.9999074276		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	8	11.9650452
Longitude	92	32	25.5443028
Ellipsoid Height (M):	54.900		
Geoid Height (M):	-26.102		

Location Description

TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 6.44 KM (4.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.35 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 229 AND 3.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 464.631 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	200009A
Geodetic Azimuth	273 29 31.66828
Grid Azimuth	273 47 40.55792

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	300001

Comments

ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200009A	6/28/2000	AHTD	DALLAS	229	070161

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	563,202.3565	
Easting (M)	349,693.3286	
Elevation (M)*	83.907	
Northing (SFT)	1,847,773.0646	
Easting (SFT)	1,147,285.5289	
Elevation (SFT)*	275.285	

Convergence Angle	0	18	19.0337816
Scale Factor			0.999920063
Elevation Adjust. Factor			0.9999868324
Combined Adjust. Factor			0.9999068965

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	8	12.8831604	
Longitude	92	32	43.6449336	
Ellipsoid Height (M):	58.344			
Geoid Height (M):	-26.105			

Location Description

TO REACH THE STATION FROM THE JUNCTION STATE HIGHWAY 229 AND STATE HIGHWAY 46 LOCATED IN LEOLA, GO SOUTH ON STATE HIGHWAY 229 FOR 6.12 KM (3.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 229 AND 2.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "200009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 464.631 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	200009
Geodetic Azimuth	93 29 21.510743
Grid Azimuth	93 47 40.557924

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	300001

Comments

ELEVATION BASED ON NGS POINT GABY AND NGS POINT G 81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200010	9/21/2005	AHTD	Dallas	167	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	535,552.7751
Easting (M)	361,775.3730
Elevation (M)*	70.109
Northing (SFT)	1,757,059.3963
Easting (SFT)	1,186,924.7029
Elevation (SFT)*	230.015
Convergence Angle	0 13 52.6461367
Scale Factor	0.999921711
Elevation Adjust. Factor	0.9999889978
Combined Adjust. Factor	0.9999107096

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 53 17.2878648
Longitude	92 24 47.6898192
Ellipsoid Height (M):	44.168
Geoid Height (M):	-25.984

Location Description

The station is located 103 feet southeast of the junction of highways 167 and 273 north of Fordyce on a high bank in the southeast quadrant of the junction. 78 feet east of the center of Hwy-167 and 1.65 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "200010 2005" set on top of a 4 foot long by 5/8 inch rebar that is just below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Gas regulator station	127	7.17	23.5
MK # 2				
MK # 3				

AZ Mark Station	200010A
Geodetic Azimuth	344 26 37
Grid Azimuth	344 40 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200010A	9/21/2005	AHTD	Dallas	167	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	536,130.6731	
Easting (M)	361,617.0060	
Elevation (M)*	61.783	
Northing (SFT)	1,758,955.3833	
Easting (SFT)	1,186,405.1272	
Elevation (SFT)*	202.701	

Convergence Angle	0	13	56.1468327
Scale Factor			0.999921485
Elevation Adjust. Factor			0.9999903043
Combined Adjust. Factor			0.9999117900

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	53	36.0244752	
Longitude	92	24	53.9445168	
Ellipsoid Height (M):	35.840			
Geoid Height (M):	-25.985			

Location Description

To reach the station from the junction of highways 167 and 273 north of Fordyce go north on Hwy-167 for 0.30 miles to the station on the left.58 feet west of the center of Hwy-167 and 15 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "200010A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Head wall	028	10.36	34.0
MK # 2	Fence corner	258	4.87	16.0
MK # 3	Power pole	170	18.53	60.8

AZ Mark Station	200010
Geodetic Azimuth	164 26 34
Grid Azimuth	164 40 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200011	9/21/2005	AHTD	Dallas	n/a	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	539,966.3591	
Easting (M)	360,795.6210	
Elevation (M)*	63.676	
Northing (SFT)	1,771,539.6298	
Easting (SFT)	1,183,710.2999	
Elevation (SFT)*	208.910	

Convergence Angle	0	14	14.3860404
Scale Factor	0.999920189		
Elevation Adjust. Factor	0.9999900073		
Combined Adjust. Factor	0.9999101971		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	55	40.4135184
Longitude	92	25	26.5325304
Ellipsoid Height (M):	37.731		
Geoid Height (M):	-25.993		

Location Description

To reach the station from the junction of highways 79 and 167 on the north side of Fordyce go north on Hwy-167 for 7.05 miles to a gravel road, "Wells Road" on the left. Turn left on Wells road and go 0.05 miles to the station on the right. 17.6 feet north of the center of the road and 1.65 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "200011 2005" set on top of a 4 foot long by 5/8 inch rebar set just below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	200011A
Geodetic Azimuth	270 02 24
Grid Azimuth	270 16 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200011A	9/21/2005	AHTD	Dallas	NA	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	539,968.7121	
Easting (M)	360,309.7140	
Elevation (M)*	62.971	
Northing (SFT)	1,771,547.3496	
Easting (SFT)	1,182,116.1200	
Elevation (SFT)*	206.599	

Convergence Angle	0	14	24.9755664
Scale Factor			0.999920189
Elevation Adjust. Factor			0.9999901178
Combined Adjust. Factor			0.9999103076

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	55	40.4241564	
Longitude	92	25	45.4528488	
Ellipsoid Height (M):	37.024			
Geoid Height (M):	-25.997			

Location Description

To reach the station from the junction of highways 79 and 167 on the north side of Fordyce go north on Hwy-167 for 7.05 miles to a gravel road, "Wells Road" on the left. Turn left on Wells road and go 0.30 miles to the station on the right. 16.5 feet south of the center of Wells road and 1.65 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "200011A 2005" set on top of a 4 foot long by 5/8 inch rebar set just below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	none			
MK # 2				
MK # 3				

AZ Mark Station	200011
Geodetic Azimuth	090 02 14
Grid Azimuth	090 16 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200012	9/22/2005	AHTD	Dallas	167	001914, 070291

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	558,260.8589	
Easting (M)	362,266.2820	
Elevation (M)*	56.981	
Northing (SFT)	1,831,560.8346	
Easting (SFT)	1,188,535.2935	
Elevation (SFT)*	186.945	

Convergence Angle	0	13	43.9286679
Scale Factor			0.999918988
Elevation Adjust. Factor			0.9999910579
Combined Adjust. Factor			0.9999100466

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	5	34.4002524	
Longitude	92	24	32.1143076	
Ellipsoid Height (M):	30.970			
Geoid Height (M):	-25.996			

Location Description

The station is located near the southern edge of the junction of highways 167 and 48 at Farindale. 54.13 feet west of the center of Hwy-167, 46.9 feet northeast of the center of Hwy-48 and 1.65 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "200012 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Sign "Farindale Liquor"	355	26.60	87.3
MK # 2				
MK # 3				

AZ Mark Station	200012A
Geodetic Azimuth	179 21 31
Grid Azimuth	179 35 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200012A	9/22/2005	AHTD	Dallas	167	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	557,428.3680	
Easting (M)	362,272.2780	
Elevation (M)*	56.433	
Northing (SFT)	1,828,829.5707	
Easting (SFT)	1,188,554.9654	
Elevation (SFT)*	185.148	

Convergence Angle	0	13	43.7251523	
Scale Factor			0.999918864	
Elevation Adjust. Factor			0.9999911439	
Combined Adjust. Factor			0.9999100086	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	5	7.3808484	
Longitude	92	24	31.7506860	
Ellipsoid Height (M):	30.424			
Geoid Height (M):	-25.995			

Location Description

To reach the station from the southern most intersection of highways 167 and 48 at Farindale go south on Hwy-167 for 0.45 miles to the station on the left. 63.6 feet east of the center of Hwy-167 and 8.70 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "200012A 2005" set on top of a 4 foot long by 5/8 inch rebar and is just below the ground surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Right of way marker	354	14.75	48.4
MK # 2	Power pole with guy		26.80	87.9
MK # 3				

AZ Mark Station	200012
Geodetic Azimuth	359 21 31
Grid Azimuth	359 35 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200013	2/26/2007	AHTD	DALLAS	9	070309

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	549,110.6990	
Easting (M)	341,814.6620	
Elevation (M)*		
Northing (SFT)	1,801,540.6850	
Easting (SFT)	1,121,436.9369	
Elevation (SFT)*		

Convergence Angle	0	21	9.2580601
Scale Factor	0.999918564		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	0	34.0444404
Longitude	92	37	47.7848496
Ellipsoid Height (M):	67.288		
Geoid Height (M):	-26.156		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND 8, IN PRINCETON, GO NORTH ON HIGHWAY 9 FOR 2.0 MILES TO THE STATION MARK ON THE RIGHT, NORTH 53.3 FEET OF THE CENTERLINE OF A GATED GRAVEL ROAD, EAST 27.7 FEET OF THE CENTERLINE OF STATE HIGHWAY 9 AND WEST 32.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "200013 2007" ON TOP OF A 4.0 FEET IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	174	23.59	77.4
MK # 2				
MK # 3				

AZ Mark Station	200013A
Geodetic Azimuth	175 56 11
Grid Azimuth	176 17 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	DQUA, MSCL
Ref Mon # 3	N 81

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200013A	2/26/2007	AHTD	DALLAS	9	070309

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	548,652.5860	
Easting (M)	341,844.3750	
Elevation (M)*		
Northing (SFT)	1,800,037.6926	
Easting (SFT)	1,121,534.4203	
Elevation (SFT)*		

Convergence Angle	0	21	8.5484553
Scale Factor	0.999918598		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	0	19.1813472	
Longitude	92	37	46.5169980	
Ellipsoid Height (M):	57.622			
Geoid Height (M):	-26.154			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND 8, IN PRINCETON, GO NORTH ON HIGHWAY 9 FOR 1.75 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 91.9 FEET OF A 24 INCH CMP UNDER HIGHWAY 9, EAST 21.2 FEET OF THE CENTERLINE OF STATE HIGHWAY 9 AND WEST 30.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "200013A 2007" ON TOP OF A 4.0 FEET IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	113	8.96	29.4
MK # 2				
MK # 3				

AZ Mark Station	200013
Geodetic Azimuth	355 56 12
Grid Azimuth	356 17 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	DQUA, MSCL
Ref Mon # 3	N 81

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200014	4/3/2017	AHTD	DALLAS	8	070375

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	547,274.0849	0.0020
Easting (M)	330,601.8093	0.0020
Elevation (M)*		
Northing (SFT)	1,795,515.0602	
Easting (SFT)	1,084,649.4360	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	59	31.9783524	
Longitude	92	45	4.2682824	
Ellipsoid Height (M):	55.869	0.0040		
Geoid Height (M):	-26.351	0.0040		

Convergence Angle	0	25	13.5537724
Scale Factor	0.999918739		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 8, SOUTH OF DELARK, GO EAST ON HIGHWAY 8 9.3 MILES TO THE MARK ON THE RIGHT, 39.3' SOUTHWEST OF THE C/L OF THE HIGHWAY AND 2' NORTHEAST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "200014 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	33		
MK # 2		24.38		
MK # 3				

AZ Mark Station	200014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR

Comments

STATIC GPS DERIVED ELEV. BASED ON CONSTRAINTS ON ORTHOMETRIC HTS. OF AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL NETWORK ADJUSTMENT

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200014A	4/3/2017	AHTD	DALLAS	8	070375

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	547,118.1901	0.0020
Easting (M)	330,987.2748	0.0020
Elevation (M)*		
Northing (SFT)	1,795,003.5954	
Easting (SFT)	1,085,914.0841	
Elevation (SFT)*		

Convergence Angle	0	25	5.1223731
Scale Factor	0.999918757		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	59	27.0100356	
Longitude	92	44	49.2038916	
Ellipsoid Height (M):	47.540			0.0040
Geoid Height (M):	-26.347			0.0040

Location Description

TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 8, SOUTH OF DELARK, GO EAST ON HIGHWAY 8 9.6 MILES TO THE MARK ON THE LEFT, 20' NORTH OF THE C/L OF THE HIGHWAY AND 14.8" SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "200014A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	200014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR

Comments

STATIC GPS DERIVED ELEV. BASED ON CONSTRAINTS ON ORTHOMETRIC HTS. OF AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL NETWORK ADJUSTMENT

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200015	12/6/2018	ARDOT	DALLAS	9	070511

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	547,927.2870	0.0020
Easting (M)	342,254.7331	0.0010
Elevation (M)*		
Northing (SFT)	1,797,658.1074	
Easting (SFT)	1,122,880.7368	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality				
Elevation Datum:	NAVD 88				
Geoid Datum:	Geoid 12B				
Latitude	33	59	55.7218320		
Longitude	92	37	30.3517812		
Ellipsoid Height (M):	51.537			0.0080	
Geoid Height (M):	-26.240			0.0080	

Convergence Angle	0	20	59.5009340
Scale Factor	0.999918662		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9N AND STATE HIGHWAY 8W, IN PRINCETON, GO NORTH ON HIGHWAY 9 1.25 MILES TO THE MARK ON THE RIGHT AND NORTHEAST 23' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "200015 2018" ON TOP OF A 2' FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF HEADWALL	110	4.96	16.3
MK # 2				
MK # 3				

AZ Mark Station	200015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARMO

Comments

STATIC GPS DERIVED ELEV. BASED ON ORTOMETRIC HT.
CONSTRAINTS ON CORS SITES ARGS, ARLR & ARMO.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200015A	12/6/2018	ARDOT	DALLAS	9	070511

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	548,331.6088	0.0020
Easting (M)	342,022.2905	0.0010
Elevation (M)*		
Northing (SFT)	1,798,984.6199	
Easting (SFT)	1,122,118.1314	
Elevation (SFT)*		

Convergence Angle	0	21	4.6247561	
Scale Factor	0.999918624			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	0	8.7988068	
Longitude	92	37	39.5065200	
Ellipsoid Height (M):	57.058	0.0080		
Geoid Height (M):	-26.243	0.0080		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9N AND STATE HIGHWAY 8W, IN PRINCETON, GO NORTH ON HIGHWAY 9 1.55 MILES TO THE MARK ON THE RIGHT AND NORTHEAST 25.5' OF THE C/L OF THE HIGHWAY AND 13' NORTHWEST OF A DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "200015A 2018" ON TOP OF A 2' FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	45	10.36	34.0
MK # 2				
MK # 3				

AZ Mark Station	200015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARMO

Comments

STATIC GPS DERIVED ELEV. BASED ON ORTOMETRIC HT.
CONSTRAINTS ON CORS SITES ARGS, ARLR & ARMO.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200016	5/2/2023	ARDOT	DALLAS	167	070527

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	535,552.2834	0.0020
Easting (M)	361,758.7076	0.0010
Elevation (M)*		
Northing (SFT)	1,757,057.7831	
Easting (SFT)	1,186,870.0265	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	53	17.2697208	
Longitude	92	24	48.3383448	
Ellipsoid Height (M):	42.263	0.0060		
Geoid Height (M):	-26.078	0.0060		

Convergence Angle	0	13	53.0091104
Scale Factor	0.999921712		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 79 AND HWY 167 IN FORDYCE, HEAD NORTH ON HWY 167 FOR 4.2 MILES TO THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN OF THE DIVIDED HIGHWAY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "200016 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	200016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARMO

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM HEYS BY S5112 IN MAY 2023 FOR JOB #070527

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
200016A	5/2/2023	ARDOT	DALLAS	167	070527

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	535,973.4416	0.0020
Easting (M)	361,678.7583	0.0010
Elevation (M)*		
Northing (SFT)	1,758,439.5330	
Easting (SFT)	1,186,607.7262	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	53	30.9291756	
Longitude	92	24	51.5162520	
Ellipsoid Height (M):	36.129			0.0060
Geoid Height (M):	-26.078			0.0060

Convergence Angle	0	13	54.7877555
Scale Factor	0.999921546		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 79 AND HWY 167 IN FORDYCE, HEAD NORTH ON HWY 167 FOR 4.4 MILES TO THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN OF THE DIVIDED HIGHWAY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "200016A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	200016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARMO

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM HEYS BY S5112 IN MAY 2023 FOR JOB #070527

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210001	1/11/1993	AHTD	DESHA	65	20139

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	505,707.0122	
Easting (M)	457,334.9000	
Elevation (M)*	43.415	
Northing (SFT)	1,659,140.4225	
Easting (SFT)	1,500,439.5844	
Elevation (SFT)*	142.437	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	37	5.4223248	
Longitude	91	22	55.5709188	
Ellipsoid Height (M):	16.657			
Geoid Height (M):	-26.758			

Convergence Angle	0	20	44.9922403
Scale Factor	0.999944693		
Elevation Adjust. Factor	0.9999931868		
Combined Adjust. Factor	0.9999378802		

Location Description

FROM THE JCT. OF HWY. 4 AND HWY. 65 IN McGEHEE, GO NORTH ON HWY. 65 FOR 0.53 MILES TO THE STATION ON THE RIGHT, THE STATION IS 60 FEET EAST OF THE CENTERLINE OF HWY. 65, 26.80 FEET WEST OF THE CENTERLINE OF HWY. 4 NORTH SPUR AND 1.60 FEET WEST OF A METAL WINESS POST AND SIGN.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	105	37.67	123.6
MK # 2	NBC IN COMBINATION POLE	185	42.05	138.0
MK # 3	NBC IN COMBINATION POLE	253	41.42	135.9

AZ Mark Station	9321001A
Geodetic Azimuth	192 48 20.54094
Grid Azimuth	192 27 35.55944

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	91090005

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210001A	1/11/1993	AHTD	DESHA	65	20139

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	505,303.6742	
Easting (M)	457,245.7790	
Elevation (M)*	43.047	
Northing (SFT)	1,657,817.1378	
Easting (SFT)	1,500,147.1933	
Elevation (SFT)*	141.230	

Convergence Angle	0	20	43.0043009
Scale Factor			0.999945152
Elevation Adjust. Factor			0.9999932446
Combined Adjust. Factor			0.9999383969

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	36	52.3480860
Longitude	91	22	59.1227724
Ellipsoid Height (M):	16.291		
Geoid Height (M):	-26.756		

Location Description

FROM THE JCT OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 0.27 MILES TO THE STATION ON THE LEFT, THE STATION IS 90.16 FEET WEST OF THE CENTERLINE OF HWY. 65, 52.3 FEET SOUTH OF THE CENTERLINE OF BUSH STREET AND 5.1 FEET NORTH OF A METAL WITNESS POST AND SIGN.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	338	28.95	95.0
MK # 2	NBC IN COMBINATION POLE	101	43.58	143.0
MK # 3	NBC IN POWER SERVICE POLE	125	10.75	35.3

AZ Mark Station	93210001
Geodetic Azimuth	12 48 18.574512
Grid Azimuth	12 27 35.559443

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	91090005

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210002	1/11/1993	AHTD	DESHA	65	20139

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	510,241.0062	
Easting (M)	454,392.5440	
Elevation (M)*	44.205	
Northing (SFT)	1,674,015.7012	
Easting (SFT)	1,490,786.2048	
Elevation (SFT)*	145.029	

Convergence Angle	0	19	41.6662343
Scale Factor	0.999939781		
Elevation Adjust. Factor	0.9999930628		
Combined Adjust. Factor	0.9999328443		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	39	33.1500672
Longitude	91	24	48.7155672
Ellipsoid Height (M):	17.462		
Geoid Height (M):	-26.743		

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 4.1 MILES TO THE STATION ON THE RIGHT, THE STATION IS 49.6 FEET EAST OF THE CENTERLINE OF HWY. 65, 19.6 FEET NORTH OF A FIELD ENTRANCE AND 1.75 FEET WEST OF A METAL WITNESS POST AND SIGN.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CPS IN SHOULDER OF HWY. 65	241	9.43	30.9
MK # 2	CPS IN SHOULDER OF HWY. 65	290	16.18	53.1
MK # 3	CPS IN SHOULDER OF HWY. 65	184	15.48	50.8

AZ Mark Station	9321002A
Geodetic Azimuth	328 10 21.12849
Grid Azimuth	327 50 39.49285

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	91090005

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210002A	1/11/1993	AHTD	DESHA	65	20139

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	510,708.0732	
Easting (M)	454,098.9200	
Elevation (M)*	43.980	
Northing (SFT)	1,675,548.0702	
Easting (SFT)	1,489,822.8734	
Elevation (SFT)*	144.291	

Convergence Angle	0	19	35.3452755
Scale Factor	0.999939304		
Elevation Adjust. Factor	0.9999930982		
Combined Adjust. Factor	0.9999324026		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	39	48.3647436
Longitude	91	25	0.0092316
Ellipsoid Height (M):	17.239		
Geoid Height (M):	-26.741		

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 4 IN McGEHEE, GO NORTH ON HWY. 65 FOR 4.40 MILES TO THE STATION ON THE RIGHT, THE STATION IS 53.3 FEET EAST OF THE CENTERLINE OF HWY. 65, 18 FEET SOUTH OF A FIELD ENTRANCE AND 1.7 FEET WEST OF A METAL WITNESS POST AND SIGN.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	327	25.08	82.3
MK # 2	NBC IN POWER POLE	346	31.26	102.6
MK # 3	CPS IN SHOULDER OF HWY. 65	188	15.22	49.9

AZ Mark Station	93210002
Geodetic Azimuth	148 10 14.86862
Grid Azimuth	147 50 39.49285

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	91090005

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210003	8/13/1996	AHTD	DESHA	65	R20122,R20093,R20094

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	532,245.9930
Easting (M)	448,254.5510
Elevation (M)*	48.320
Northing (SFT)	1,746,210.3954
Easting (SFT)	1,470,648.4727
Elevation (SFT)*	158.530
Convergence Angle	0 17 30.7574019
Scale Factor	0.999923189
Elevation Adjust. Factor	0.9999924171
Combined Adjust. Factor	0.9999156067

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 51 28.4700816
Longitude	91 28 42.6105300
Ellipsoid Height (M):	22.370
Geoid Height (M):	-25.952

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN THE CENTER OF DUMAS GO SOUTH ON HWY-65 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE LEFT NEAR THE WEST EDGE OF A GRASS LANDING STRIP. 14.15 METERS EAST OF THE CENTER OF HWY-65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 516.523 METERS. THIS STATION WAS UPDATED 4/19/00.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER WELL	HEAD	80.00	262.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210003A
Geodetic Azimuth	170 52 29.89128
Grid Azimuth	170 34 59.12977

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

Calculated by Jim and Brain. ELEVATION BY 3-WIRE USING TBM-1 ON JOB R20093 ELEVATION = 48.572 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210003A	8/13/1996	AHTD	DESHA	65	R20122,R20093,R20094

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	531,736.4711
Easting (M)	448,339.0563
Elevation (M)*	48.287
Northing (SFT)	1,744,538.7389
Easting (SFT)	1,470,925.7205
Elevation (SFT)*	158.422

Convergence Angle	0	17	32.5408827
Scale Factor			0.999923438
Elevation Adjust. Factor			0.9999924223
Combined Adjust. Factor			0.9999158608

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	51	11.9180592
Longitude	91	28	39.4239828
Ellipsoid Height (M):	22.338		
Geoid Height (M):	-25.953		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN THE CENTER OF DUMAS GO SOUTH ON HWY-65 FOR 3.46 KM (2.15 MI) TO THE STATION IN THE LEFT NEAR THE ENTRANCE TO THE GRASS LANDING STRIP. 15.44 METERS EAST OF THE CENTER OF HWY-65, 8.0 METERS NORTH OF THE GRAVEL ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 516.523 METERS. THIS STATION WAS UPDATED 4/19/00.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	191	38.57	126.5
MK # 2	CENTER OF CONCRETE HEADWALL	252	17.08	56.0
MK # 3	ANTENNA POLE	77	51.50	169.0

AZ Mark Station	210003
Geodetic Azimuth	350 52 31.66651
Grid Azimuth	350 34 59.12977

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

Calculated by Jim and Brain. ELEVATION BY 3-WIRE USING TBM-1 ON JOB R20093 ELEVATION = 48.572 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210004	8/13/1996	AHTD	DESHA	65	R20122,R20092,R20093

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	538,086.0941
Easting (M)	446,238.7840
Elevation (M)*	48.780
Northing (SFT)	1,765,370.7937
Easting (SFT)	1,464,035.0772
Elevation (SFT)*	160.039
Convergence Angle	0 16 47.4853273
Scale Factor	0.999920790
Elevation Adjust. Factor	0.9999923449
Combined Adjust. Factor	0.9999131355

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 54 38.3537520
Longitude	91 29 59.9247960
Ellipsoid Height (M):	22.832
Geoid Height (M):	-25.948

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN DUMAS, GO NORTH ON U.S. HIGHWAY 65 FOR 3.45 KM (2.15 MI) TO THE STATION ON THE LEFT JUST SOUTH OF THE JUNCTION OF STATE HIGHWAY 159. THE STATION IS 21.31 METERS EAST OF THE CENTER OF STATE HIGHWAY 159, 14.07 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING N.O.A.A. BENCH MARK "K 292 1984" ELEAVTION = 48.234 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	158	16.72	54.9
MK # 2	POWER POLW	308	19.91	65.3
MK # 3	SOUTHEAST END OF CULVERT	330	17.31	56.8

AZ Mark Station	210004A
Geodetic Azimuth	142 08 22.42523
Grid Azimuth	141 51 34.92716

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

Calculated by Jim and Brain ELEVATION BASED ON NGS PT "K 292 1984" USING 3 WIRE LEVEL

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210004A	8/13/1996	AHTD	DESHA	65	R20122,R20092,R20093

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	537,623.1241
Easting (M)	446,602.3260
Elevation (M)*	49.186
Northing (SFT)	1,763,851.8663
Easting (SFT)	1,465,227.7979
Elevation (SFT)*	161.371
Convergence Angle	0 16 55.3566707
Scale Factor	0.999920950
Elevation Adjust. Factor	0.9999922812
Combined Adjust. Factor	0.9999132318

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	54	23.2689096
Longitude	91	29	45.8610576
Ellipsoid Height (M):	23.215		
Geoid Height (M):	-25.950		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIIGHWAYS 54-165 AND U.S. 65, LOCATED IN DUMAS, GO NORTH ON U.S. HIGHWAY 65 FOR 2.90 KM (1.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.32 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 7.50 METERS WEST OF THE CENTER OF A GRAVRL ROAD AND 3.77 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST END OF CULVERT	166	6.20	20.3
MK # 2	SOUTHEAST END OF CULVERT	156	18.00	59.1
MK # 3	NONE			

AZ Mark Station	210004
Geodetic Azimuth	322 08 30.27094
Grid Azimuth	321 51 34.92716

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

Calculated by Jim and Brain ELEVATION BASED ON NGS PT "K 292 1984" USING 3 WIRE LEVEL

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210005	2/9/2000	AHTD	DESHA	65	R20094

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	527,196.0539	
Easting (M)	449,079.9347	
Elevation (M)*	48.973	
Northing (SFT)	1,729,642.3868	
Easting (SFT)	1,473,356.4191	
Elevation (SFT)*	160.672	

Convergence Angle	0	17	48.1606091
Scale Factor	0.999925940		
Elevation Adjust. Factor	0.9999923146		
Combined Adjust. Factor	0.9999182552		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	48	44.4214584
Longitude	91	28	11.5161996
Ellipsoid Height (M):	22.987		
Geoid Height (M):	-25.969		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO NORTH ON U.S. HIGHWAY 65 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.90 METERS EAST OF THE CENTER OF U.S. HIHGWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.986 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210005A
Geodetic Azimuth	173 28 32.05214
Grid Azimuth	173 10 43.88668

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210005A	2/9/2000	AHTD	DESHA	65	R20094

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	526,523.9087	
Easting (M)	449,160.3347	
Elevation (M)*	49.406	
Northing (SFT)	1,727,437.1905	
Easting (SFT)	1,473,620.1981	
Elevation (SFT)*	162.093	

Convergence Angle	0	17	49.8345062
Scale Factor	0.999926353		
Elevation Adjust. Factor	0.9999922466		
Combined Adjust. Factor	0.9999186002		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	48	22.5913824
Longitude	91	28	8.5254456
Ellipsoid Height (M):	23.467		
Geoid Height (M):	-25.971		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO NORTH ON U.S. HIGHWAY 65 FOR 2.86 KM (1.78 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65, 6.80 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.986 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CMP	125	3.60	11.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210005
Geodetic Azimuth	353 28 33.71629
Grid Azimuth	353 10 43.88668

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210006	2/9/2000	AHTD	DESHA	65	020238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	511,982.8525	
Easting (M)	453,297.8958	
Elevation (M)*	43.867	
Northing (SFT)	1,679,730.4086	
Easting (SFT)	1,487,194.8465	
Elevation (SFT)*	143.920	

Convergence Angle	0	19	18.0982060
Scale Factor	0.999938029		
Elevation Adjust. Factor	0.9999931159		
Combined Adjust. Factor	0.9999311453		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	29.8890336
Longitude	91	25	30.8245908
Ellipsoid Height (M):	17.825		
Geoid Height (M):	-26.066		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO SOUTH ON U.S. HIGHWAY 65 FOR 5.13 KM (3.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 1.00 METERS SOUTH OF THE SOUTH CORNER OF A PAVED PARKING LOT OF THE RESIDENT ENGINEERS OFFICE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 601.955 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF A HEADWALL	180	19.50	64.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210006A
Geodetic Azimuth	327 23 05.16173
Grid Azimuth	327 03 47.09619

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210006A	2/9/2000	AHTD	DESHA	65	020238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	512,488.0160	
Easting (M)	452,970.6290	
Elevation (M)*	44.016	
Northing (SFT)	1,681,387.7658	
Easting (SFT)	1,486,121.1386	
Elevation (SFT)*	144.409	

Convergence Angle	0	19	11.0485010
Scale Factor	0.999937535		
Elevation Adjust. Factor	0.9999930925		
Combined Adjust. Factor	0.9999306279		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	46.3452636
Longitude	91	25	43.4203068
Ellipsoid Height (M):	17.977		
Geoid Height (M):	-26.060		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO SOUTH ON U.S. HIGHWAY 65 FOR 4.52 KM (2.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 601.955 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210006
Geodetic Azimuth	147 22 58.17722
Grid Azimuth	147 03 47.09619

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210007	2/9/2000	AHTD	DESHA	65	020044,020238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	508,103.6154
Easting (M)	456,254.8226
Elevation (M)*	42.396
Northing (SFT)	1,667,003.2782
Easting (SFT)	1,496,896.0305
Elevation (SFT)*	139.093
Convergence Angle	0 20 21.8478438
Scale Factor	0.999942036
Elevation Adjust. Factor	0.9999933468
Combined Adjust. Factor	0.9999353832

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 38 23.4217248
Longitude	91 23 36.9230388
Ellipsoid Height (M):	16.422
Geoid Height (M):	-26.116

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO SOUTH ON U.S. HIGHWAY 65 FOR 10.01 KM (6.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.60 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF U.S. HIGHWAY 65 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 844.524 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A HEADWALL	271	14.00	45.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210007A
Geodetic Azimuth	315 30 38.41491
Grid Azimuth	315 10 16.63245

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

ELEV BY 3 WIRE LOOP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210007A RESET	1/23/2003	AHTD	DESHA	65	020044

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	508,637.4231	
Easting (M)	455,736.6490	
Elevation (M)*	42.907	
Northing (SFT)	1,668,754.6123	
Easting (SFT)	1,495,195.9893	
Elevation (SFT)*	140.770	

Convergence Angle	0	20	10.6614883
Scale Factor	0.999941462		
Elevation Adjust. Factor	0.9999932666		
Combined Adjust. Factor	0.9999347289		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	40.8474132
Longitude	91	23	56.9097132
Ellipsoid Height (M):	16.793		
Geoid Height (M):	-26.108		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	210007
Geodetic Azimuth	136 11 16
Grid Azimuth	135 51 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	210009, 210007
Ref Mon # 2	MEM2 CORS
Ref Mon # 3	VIC1 CORS

Comments

ELEV BY 3 WIRE LOOP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210008	7/24/2000	AHTD	DESHA	1	020045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	518,614.0958	
Easting (M)	465,781.9806	
Elevation (M)*		
Northing (SFT)	1,701,486.4126	
Easting (SFT)	1,528,153.0480	
Elevation (SFT)*		

Convergence Angle	0	23	50.3534380
Scale Factor	0.999932131		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	44	2.5844460	
Longitude	91	17	24.3858516	
Ellipsoid Height (M):	14.723			
Geoid Height (M):	-26.254			

Location Description

THE STATION IS LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE AT THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4. THE STATION IS 23.00 METERS NORTH OF THE CENTER OF STATE HIHGWAY 4, 12.85 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WTIH THE GROUND. THE SHOT DISTANCE IS 565.759 METERS

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MAN HOLE COVER	232	13.65	44.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210008A
Geodetic Azimuth	95 48 17.078154
Grid Azimuth	95 24 26.677111

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	WINSTON
Ref Mon # 3	210004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210008A	7/24/2000	AHTD	DESHA	4	020045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	518,560.7847	
Easting (M)	466,345.1771	
Elevation (M)*		
Northing (SFT)	1,701,311.5078	
Easting (SFT)	1,530,000.8019	
Elevation (SFT)*		

Convergence Angle	0	24	2.5909920
Scale Factor			0.999932178
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	44	0.7267668
Longitude	91	17	2.5209996
Ellipsoid Height (M):	15.672		
Geoid Height (M):	-26.261		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO EAST ON STATE HIGHWAY 4 FOR 0.57 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.52 METERS NORTH OF THE CENTER OF STATE HIGHWAY 4 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 565.759 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210008
Geodetic Azimuth	275 48 29.22047
Grid Azimuth	275 24 26.67711

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	WINSTON
Ref Mon # 3	210004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210009	7/24/2000	AHTD	DESHA	1	020044,020045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	515,264.8200
Easting (M)	462,916.4161
Elevation (M)*	
Northing (SFT)	1,690,497.9970
Easting (SFT)	1,518,751.6085
Elevation (SFT)*	
Convergence Angle	0 22 47.5640648
Scale Factor	0.999934996
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	42	14.5044288
Longitude	91	19	16.5716976
Ellipsoid Height (M):	15.429		
Geoid Height (M):	-26.223		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED ABOUT 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTH WEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS 19.90 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 9.75 METERS NORTHEAST OF THE CENTER OF A GRAVEL ROAD, 6.98 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 653.572 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210009A
Geodetic Azimuth	137 36 11.77355
Grid Azimuth	137 13 24.16834

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	WINSTON
Ref Mon # 3	210004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210009A	7/24/2000	AHTD	DESHA	1	020045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	514,785.1263
Easting (M)	463,360.2540
Elevation (M)*	
Northing (SFT)	1,688,924.2019
Easting (SFT)	1,520,207.7667
Elevation (SFT)*	

Convergence Angle	0	22	57.1415153
Scale Factor			0.999935434
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	41	58.8386400
Longitude	91	18	59.4596556
Ellipsoid Height (M):	16.099		
Geoid Height (M):	-26.231		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTHWEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE RIGHT, GO RIGHT, SOUTHEAST ON CAMP NINE ROAD FOR 0.63 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.25 METERS NORTHEAST OF THE CENTER OF CAMP NINE ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210009A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 653.572 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	210009A
Geodetic Azimuth	317 36 21.26853
Grid Azimuth	317 13 24.16834

Area Reference Monuments (used for Processing)

Ref Mon # 1	LAKE
Ref Mon # 2	WINSTON
Ref Mon # 3	210004

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210009A RESET	1/21/2003	AHTD	DESHA	N/A	020044

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	514,782.5281	
Easting (M)	463,345.4400	
Elevation (M)*		
Northing (SFT)	1,688,915.6776	
Easting (SFT)	1,520,159.1644	
Elevation (SFT)*		

Convergence Angle	0	22	56.8191657
Scale Factor	0.999935436		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	41	58.7575176	
Longitude	91	19	0.0355980	
Ellipsoid Height (M):	15.939			
Geoid Height (M):	-26.230			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 4, LOCATED 14.48 KM (9.00 MI) NORTHEAST OF MCGEHEE, GO SOUTHWEST ON STATE HIGHWAY 1 FOR 4.35 KM (2.70 MI) TO THE JUNCTION OF CAMP NINE ROAD ON THE LEFT, GO LEFT, SOUTHEAST ON CAMP NINE ROAD FOR 0.63 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.30 METERS SOUTHWEST OF THE CENTER OF CAMP NINE ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "210009A RESET 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	210009
Geodetic Azimuth	318 43 40
Grid Azimuth	318 20 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	210009, 210007
Ref Mon # 2	MEM2 CORS
Ref Mon # 3	VIC1 CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210011	5/1/2001	ADS	DESHA	65	020044

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	508,820.6332	
Easting (M)	457,320.1750	
Elevation (M)*	43.117	
Northing (SFT)	1,669,355.6941	
Easting (SFT)	1,500,391.2741	
Elevation (SFT)*	141.460	

Vertical Determined By:	LEVEL (ADS)			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	38	46.4881308	
Longitude	91	22	55.4130156	
Ellipsoid Height (M):	0.000			
Geoid Height (M):	0.000			

Convergence Angle	0	20	45.0806172
Scale Factor	0.999941277		
Elevation Adjust. Factor	0.9999932336		
Combined Adjust. Factor	0.9999345110		

Location Description

3" ALUM CAP SET IN CONCRETE STAMPED 210011 SET ON THE EAST SIDE OF HWY. 1 AND NE OF HWY 65 (165) OVERPASS APPROX 0.8 MILE

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	BRIDGE MAY ICE SIGN	45	0.00	0.0
MK # 2	SW GATE POST	290	0.00	0.0
MK # 3	NE GATE POST	325	0.00	0.0

AZ Mark Station	210011A
Geodetic Azimuth	
Grid Azimuth	35 15 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RM A
Ref Mon # 2	BENOIT & E 360
Ref Mon # 3	HEEHAW

Comments

ELEVATION RUN BY ADS. NO LEVEL FILES PROVIDED.ELEV BY 3 WR LOOP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210011A	5/1/2001	ADS	DESHA	65	020044

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	509,344.3101	
Easting (M)	457,690.3050	
Elevation (M)*	42.874	
Northing (SFT)	1,671,073.7907	
Easting (SFT)	1,501,605.6090	
Elevation (SFT)*	140.664	

Vertical Determined By:	LEVEL (ADS)			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	39	3.4130376	
Longitude	91	22	40.9252044	
Ellipsoid Height (M):	0.000			
Geoid Height (M):	0.000			

Convergence Angle	0	20	53.1893102
Scale Factor	0.999940729		
Elevation Adjust. Factor	0.9999932717		
Combined Adjust. Factor	0.9999340011		

Location Description

3" ALUM CAP SET IN CONCRETE STAMPED 210011A SET ON THE EAST SIDE OF HWY. 1 AND NE OF HWY 65 (165) OVERPASS APPROX 1.2 MILE AT CURVEY TO THE EAST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D IN NORTH FACE OF POLE	215	0.00	0.0
MK # 2	R/R CROSSING SIGN	250	0.00	0.0
MK # 3	CENTERLINE OF ROAD	330	0.00	0.0

AZ Mark Station	210011
Geodetic Azimuth	
Grid Azimuth	215 15 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	WINN RM A
Ref Mon # 2	BENOIT & E 360
Ref Mon # 3	HEEHAW

Comments

ELEVATION RUN BY ADS. NO LEVEL FILES PROVIDED.ELEV BY 3 WR LOOP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210040	1/21/2003	AHTD	DESHA	1	020044

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	511,521.3012	
Easting (M)	459,811.1070	
Elevation (M)*	42.479	
Northing (SFT)	1,678,216.1357	
Easting (SFT)	1,508,563.6069	
Elevation (SFT)*	139.366	

Convergence Angle	0	21	39.5556077
Scale Factor			0.999938523
Elevation Adjust. Factor			0.9999933337
Combined Adjust. Factor			0.9999318571

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	13.6483896
Longitude	91	21	18.0824868
Ellipsoid Height (M):	16.334		
Geoid Height (M):	-26.180		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 1 ON THE NORTH SIDE OF McGEHEE, GO NORTHEAST ON STATE HIGHWAY 1 FOR 3.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 22.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "210010 2003 SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	223	24.05	78.9
MK # 2	CORRIGATED METAL PIPE	235	21.10	69.2
MK # 3				

AZ Mark Station	210040A
Geodetic Azimuth	39 21 14
Grid Azimuth	38 59 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	210009, 210007
Ref Mon # 2	MEM2 CORS
Ref Mon # 3	VIC1 CORS

Comments

ELEV BY 3 WR LOOP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210040A	1/21/2003	AHTD	DESHA	1	020044

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	511,988.7882	
Easting (M)	460,189.5760	
Elevation (M)*	42.126	
Northing (SFT)	1,679,749.8826	
Easting (SFT)	1,509,805.3006	
Elevation (SFT)*	138.208	

Convergence Angle	0	21	47.8430373
Scale Factor	0.999938064		
Elevation Adjust. Factor	0.9999933891		
Combined Adjust. Factor	0.9999314535		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	28.7445360
Longitude	91	21	3.2753268
Ellipsoid Height (M):	15.953		
Geoid Height (M):	-26.186		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 1 ON THE NORTH SIDE OF McGEHEE, GO NORTHEAST ON STATE HIGHWAY 1 FOR 3.62 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "210010A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF CONCRETE HEAD WALL	236	7.65	25.1
MK # 2				
MK # 3				

AZ Mark Station	210040
Geodetic Azimuth	219 21 23
Grid Azimuth	218 59 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	210009, 210007
Ref Mon # 2	MEM2 CORS
Ref Mon # 3	VIC1 CORS

Comments

ELEV BY 3 WR LOOP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210041	5/31/2005	AHTD	DESHA	65	R20092,020451

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	538,079.3431	
Easting (M)	446,238.9090	
Elevation (M)*	48.784	
Northing (SFT)	1,765,348.6448	
Easting (SFT)	1,464,035.4873	
Elevation (SFT)*	160.052	

Convergence Angle	0	16	47.4873321	
Scale Factor			0.999920793	
Elevation Adjust. Factor			0.9999923443	
Combined Adjust. Factor			0.9999131379	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	54	38.1346092	
Longitude	91	29	59.9212140	
Ellipsoid Height (M):			22.912	
Geoid Height (M):			-25.948	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 159, NORTH OF DUMAS, GO SOUTH ON HIGHWAY 65 19.25 METERS TO THE STATION MARK ON THE LEFT. THE STATION MARK IS SOUTHWEST 23.10 METERS OF THE CENTERLINE OF HIGHWAY 65 AND NORTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210041 2005" DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT	147	10.45	34.3
MK # 2	SOUTHEAST END OF CULVERT	356	5.60	18.4
MK # 3				

AZ Mark Station	210041A
Geodetic Azimuth	140 33 09
Grid Azimuth	140 16 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	CSAL, G 292
Ref Mon # 2	ZME1
Ref Mon # 3	K 124

Comments

3-Wire Levels were ran by S5108 in Jan 2006 in Job R20092 from NGS BM K292

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210041A	5/31/2005	AHTD	DESHA	65	R20092,020451

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	537,635.2951	
Easting (M)	446,607.9220	
Elevation (M)*	49.211	
Northing (SFT)	1,763,891.7973	
Easting (SFT)	1,465,246.1574	
Elevation (SFT)*	161.453	

Convergence Angle	0	16	55.4798971
Scale Factor	0.999920946		
Elevation Adjust. Factor	0.9999922772		
Combined Adjust. Factor	0.9999132239		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	54	23.6630592
Longitude	91	29	45.6408888
Ellipsoid Height (M):	23.341		
Geoid Height (M):	-25.950		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 54-165 AND U.S. 65 IN THE CENTER OF DUMAS GO NORTH ON HWY-65 FOR 2.90 KM. (1.80 MI.) TO THE STATION ON THE RIGHT. 19.4 METERS NORTHEAST OF THE CENTER OF HWY-65, 24.7 METERS NORTWEST OF THE CENTER OF AN ASPH DRIVE AND 7.5 METERS SOUTHEAST OF A AN ASPH TURN IN TO A FIELD AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "210041A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST END OF CULVERT	272	3.30	10.8
MK # 2				
MK # 3				

AZ Mark Station	210041
Geodetic Azimuth	320 33 17
Grid Azimuth	320 16 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	CSAL, G 292
Ref Mon # 2	ZME1
Ref Mon # 3	K 124

Comments

3-Wire Levels were ran by S5108 in Jan 2006 in Job R20092 from NGS BM K292

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210042-1	2/15/2007	AHTD	DESHA	138	020465

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	542,856.1931	
Easting (M)	442,882.2820	
Elevation (M)*		
Northing (SFT)	1,781,020.6935	
Easting (SFT)	1,453,022.9535	
Elevation (SFT)*		

Convergence Angle	0	15	34.8234274
Scale Factor			0.999919454
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	57	13.6932300
Longitude	91	32	9.7498968
Ellipsoid Height (M):	23.197		
Geoid Height (M):	-25.931		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165, 65, AND 138, SOUTH OF DUMAS. GO EAST ON HIGHWAY 138 FOR 2.2 MILES TO THE STATION MARK ON THE RIGHT, EAST 43.6 FEET OF THE CENTERLINE OF NEWTON CHAPEL ROAD (GRAVEL), EAST 9.0 FEET OF A HISTORICAL MARKER, AT THE NORTHWEST CORNER OF JEFFERSON CEMETERY, SOUTH 39.5 FEET OF THE CENTERLINE OF HIGHWAY 138 AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "210042 2007"ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE AHTD RIGHT WAY OF MARKER	272	1.52	5.0
MK # 2	40 INCH PINE	248	24.63	80.8
MK # 3				

AZ Mark Station	210042A
Geodetic Azimuth	252 24 29
Grid Azimuth	252 05 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	MSCL
Ref Mon # 3	82 V 10 W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210042A	2/15/2007	AHTD	DESHA	138	020465

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	524,033.5331
Easting (M)	452,102.6290
Elevation (M)*	
Northing (SFT)	1,719,266.6832
Easting (SFT)	1,483,273.3753
Elevation (SFT)*	
Convergence Angle	0 18 53.5660585
Scale Factor	0.999927991
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 47 1.2484032
Longitude	91 26 14.6562072
Ellipsoid Height (M):	19.768
Geoid Height (M):	-26.023

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165, 65, AND 138, SOUTH OF DUMAS. GO EAST ON HIGHWAY 138 FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTHWEST 5.50 FEET OF THE CENTERLINE OF SCOTT CEMETERY ROAD (GRAVEL), SOUTHEAST 50.0 FEET OF THE CENTERLINE OF HIGHWAY 138 AND SOUTHWEST 19.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "210042A 2007"ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE ROAD.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	30	6.92	22.7
MK # 2	SOUTHWEST END 18" PLASTIC CULVERT	278	7.38	24.2
MK # 3				

AZ Mark Station	210042
Geodetic Azimuth	72 24 14
Grid Azimuth	72 05 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	MSCL
Ref Mon # 3	82 V 10 W

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210043		AHTD	DESHA	N/A	020542

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	546,587.5874	
Easting (M)	453,167.8602	
Elevation (M)*	50.634	0.0022
Northing (SFT)	1,793,262.7763	
Easting (SFT)	1,486,768.2213	
Elevation (SFT)*	166.122	

Convergence Angle	0	19	19.4995514
Scale Factor	0.999918811		
Elevation Adjust. Factor	0.9999920539		
Combined Adjust. Factor	0.9999108656		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:			
Latitude	33	59	13.1100720
Longitude	91	25	28.3208052
Ellipsoid Height (M):	80.885		
Geoid Height (M):			

Location Description

Go 1.6 miles on highway1(from the county line). Turn right on south curve road for 0.9 miles. Turn right on to clint warner road. go right for 0.6 miles to the station on the left. The station is a standard alum. Cap set on a 4 foot rebar and stamped 210043,2012 Lat.33.59.13 Lon.91.25.28

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST OF CL 212	105	12.20	40.0
MK # 2	S.W. OF DBL 36" CMP	50	15.50	50.9
MK # 3	N.W. OF 24" CPP	135	3.00	9.8

AZ Mark Station	210043A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210043A		AHTD	DESHA	N/A	020542

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	545,945.9620	
Easting (M)	452,459.7128	
Elevation (M)*	50.864	0.0021
Northing (SFT)	1,791,157.7103	
Easting (SFT)	1,484,444.9077	
Elevation (SFT)*	166.876	

Convergence Angle	0	19	3.9787882
Scale Factor	0.999918898		
Elevation Adjust. Factor	0.9999920179		
Combined Adjust. Factor	0.9999109165		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:			
Latitude	33	58	52.4129628
Longitude	91	25	56.0517708
Ellipsoid Height (M):	81.637		
Geoid Height (M):			

Location Description

Go 1.6 miles on highway 1. Turn right on south curve Road for 0.9 miles. Turn right on Clint Warner Road for 0.3 miles to the station on the right. The station is a standard alum. cap set on a 4 foot rebar and stamped 210043A,2012. Lat. 33.5852 Lon. 91.2556

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	S.S.W. of cl 212	205	8.84	29.0
MK # 2	S.W. of well head	58	10.00	32.8
MK # 3	E. of guy pole with dbl wires	307	2.13	7.0

AZ Mark Station	210043
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

BASED ON NGS POINT :12 AR

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210044	4/12/2012	AHTD	Desha	N/A	020316

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

To reach the station from the intersections of highways 65 and 1 in McGehee go north on hwy-1 for 1.5 miles to "South curve road" on the right, turn right and go east on South curve road for 0.90 miles to a gravel road to the right, turn right and go 0.50 miles to the station on the left 24 feet east of the center of the gravel road and 14 feet southeast of a witness post. The station mark is a 2 1/2in. cap stamped "210044 2012 set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power service pole	340	4.20	13.8
MK # 2				
MK # 3				

AZ Mark Station	210044A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

33-38-22 091-21-39

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210044A	4/12/2012	AHTD	Desha	N/A	020316

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach the station from the intersections of highways 65 and 1 in McGehee go north on hwy-1 for 1.5 miles to "South curve road" on the right, turn right and go east on South curve road for 0.90 miles to a gravel road to the right, turn right and go 0.30 miles to the station on the left 26 feet east of the center of the gravel road,97 feet north of a field entrance and 2 feet east of a witness post. The station mark is a 2 1/2in. cap stamped "210044A 2012 set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	300	14.30	46.9
MK # 2				
MK # 3				

AZ Mark Station	210044
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

33-38-33 091-21-39

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210045	2/11/2015	AHTD	DESHA	65	020572,020590

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	505,687.4318
Easting (M)	457,335.7266
Elevation (M)*	43.411
Northing (SFT)	1,659,076.1825
Easting (SFT)	1,500,442.2964
Elevation (SFT)*	142.423
Convergence Angle	0 20 45.0076219
Scale Factor	0.999944715
Elevation Adjust. Factor	0.9999931875
Combined Adjust. Factor	0.9999379029

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	37	4.7866152
Longitude	91	22	55.5434364
Ellipsoid Height (M):	17.183		
Geoid Height (M):	-26.237		

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO NORTH ON HWY. 65 FOR 0.5 MILES TO THE STATION ON THE RIGHT.THE STATION IS 1 FT. WEST OF A WITNESS POST, 113 FT. NORTH OF THE CENTERLINE OF HWY. 169, AND 64 FT. EAST OF THE CENTERLINE OF HWY. 65. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210045 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE TWO TRANSFORMERS	72	36.40	119.4
MK # 2	COMBINATION POLE WITH LIGHT	196	17.20	56.4
MK # 3				

AZ Mark Station	210045A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

Elevations based on static GPS observations from NGS BM l 18 42 during job 020572 by crew s5102 in January 2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210045A	2/11/2015	AHTD	DESHA	65	020572,020590

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	505,081.2947	
Easting (M)	457,232.7602	
Elevation (M)*	43.582	
Northing (SFT)	1,657,087.5477	
Easting (SFT)	1,500,104.4808	
Elevation (SFT)*	142.986	

Convergence Angle	0	20	42.6925335
Scale Factor	0.999945407		
Elevation Adjust. Factor	0.9999931606		
Combined Adjust. Factor	0.9999385680		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	36	45.1325628
Longitude	91	22	59.6798076
Ellipsoid Height (M):	17.358		
Geoid Height (M):	-26.234		

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO NORTH ON HWY. 65 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. EAST OF A WINESS POST, 22 FT. SOUTH OF THE CENTERLINE OF SHERMAN ST., AND 43 FT. WEST OF THE CENTERLINE OF HWY. 65. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210045A 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MANHOLE	120	3.90	12.8
MK # 2	TELEPHONE BOX	278	27.00	88.6
MK # 3	O'REILLY AUTO PARTS SIGN	354	20.00	65.6

AZ Mark Station	210045
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

Elevations based on static GPS observations from NGS BM l 18 42 during job 020572 by crew s5102 in January 2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210046	2/11/2015	AHTD	DESHA	4	020572

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,022.3132	
Easting (M)	460,728.8786	
Elevation (M)*	43.789	
Northing (SFT)	1,653,613.2059	
Easting (SFT)	1,511,574.6625	
Elevation (SFT)*	143.663	

Convergence Angle	0	21	58.4546223	
Scale Factor			0.999946665	
Elevation Adjust. Factor			0.9999931282	
Combined Adjust. Factor			0.9999397936	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID12A			
Latitude	33	36	10.0552752	
Longitude	91	20	44.3155956	
Ellipsoid Height (M):			17.482	
Geoid Height (M):			-26.297	

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 2.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 4 FT. SOUTH OF A WITNESS POST, 77 FT. WEST OF A GRAVEL DRIVEWAY, AND 62 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210046 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER OF 6 FT. CHAINLINK FENCE	355	1.20	3.9
MK # 2	15 IN. STEEL PIPE UNDER GRAVEL DRIVEWAY	109	19.70	64.6
MK # 3				

AZ Mark Station	210046A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

Elevations based on static GPS observations from NGS BM I 18 42 during job 020572 by crew s5102 in January 2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210046A	2/11/2015	AHTD	DESHA	4	020572

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,026.5947	
Easting (M)	460,192.2213	
Elevation (M)*		
Northing (SFT)	1,653,627.2528	
Easting (SFT)	1,509,813.9794	
Elevation (SFT)*		

Convergence Angle	0	21	46.8044238
Scale Factor	0.999946656		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	33	36	10.3050972
Longitude	91	21	5.1310188
Ellipsoid Height (M):	17.122		
Geoid Height (M):	-26.287		

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 2.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12 FT. NORTH OF A WITNESS POST, 31 FT. WEST OF THE CENTER OF DELTA COUNTRY CLUB'S PAVED DRIVEWAY, AND 30 FT. SOUTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210046A 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	196	4.80	15.7
MK # 2	CENTER OF CONCRETE HEADWALL	108	30.30	99.4
MK # 3				

AZ Mark Station	210046
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

GPS elevation only

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210047	2/11/2015	AHTD	DESHA	4	020572

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,428.9116	
Easting (M)	465,086.7608	
Elevation (M)*	42.934	
Northing (SFT)	1,654,947.1875	
Easting (SFT)	1,525,872.1477	
Elevation (SFT)*	140.859	

Convergence Angle	0	23	33.1240612
Scale Factor	0.999946222		
Elevation Adjust. Factor	0.9999932623		
Combined Adjust. Factor	0.9999394847		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	36	22.3161192
Longitude	91	17	55.1695992
Ellipsoid Height (M):	16.571		
Geoid Height (M):	-26.374		

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FRO 5.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. NORTH OF A WITNESS POST, 46 FT. WEST OF A GRAVEL DRIVEWAY, AND 35 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210047 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WELL HEAD	300	28.90	94.8
MK # 2	POWER POLE WITH TWO TRANSFORMERS	276	27.30	89.6
MK # 3				

AZ Mark Station	210047A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210047A	2/11/2015	AHTD	DESHA	4	020572

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,399.5405	
Easting (M)	465,715.7894	
Elevation (M)*	41.101	
Northing (SFT)	1,654,850.8258	
Easting (SFT)	1,527,935.8857	
Elevation (SFT)*	134.847	

Convergence Angle	0	23	46.7763012	
Scale Factor	0.999946261			
Elevation Adjust. Factor	0.9999935499			
Combined Adjust. Factor	0.9999398113			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID12A			
Latitude	33	36	21.2222304	
Longitude	91	17	30.7771260	
Ellipsoid Height (M):	14.726			
Geoid Height (M):	-26.385			

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 5.6 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3 FT. NORTH OF A WITNESS POST, 27 FT. WEST OF THE CENTER PPF INC. GRAVEL DRIVEWAY, AND 35.5 FT. SOUTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210047A 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL GATE POST	128	2.30	7.5
MK # 2	WOODEN SIGN (PPF INC.)	261	3.10	10.2
MK # 3				

AZ Mark Station	210047
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210048	2/11/2015	AHTD	DESHA	4	020572

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	503,747.5383	
Easting (M)	470,223.7279	
Elevation (M)*		
Northing (SFT)	1,652,711.7152	
Easting (SFT)	1,542,725.6806	
Elevation (SFT)*		

Convergence Angle	0	25	24.5415044
Scale Factor	0.999947067		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	33	35	59.0126496
Longitude	91	14	36.0999240
Ellipsoid Height (M):	14.003		
Geoid Height (M):	-26.454		

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 8.4 MILES TO TEXAS EASTERN RD. GO SOUTH (RIGHT) ON TEXAS EASTERN RD. FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 4 FT. EAST OF A WITNESS POST, AND 26 FT. WEST OF THE CENTER OF TEXAS EASTERN RD. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210048 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL GATE POST	275	1.50	4.9
MK # 2	METAL GATE POST	195	10.70	35.1
MK # 3				

AZ Mark Station	210048A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

GPS elevation only

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210048A	2/11/2015	AHTD	DESHA	4	020572

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	504,347.2384
Easting (M)	470,237.1731
Elevation (M)*	41.066
Northing (SFT)	1,654,679.2313
Easting (SFT)	1,542,769.7921
Elevation (SFT)*	134.730

Convergence Angle	0	25	24.9296380
Scale Factor			0.999946360
Elevation Adjust. Factor			0.9999935555
Combined Adjust. Factor			0.9999399158

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID12A			
Latitude	33	36	18.4745268	
Longitude	91	14	35.4064452	
Ellipsoid Height (M):	14.624			
Geoid Height (M):	-26.455			

Location Description

TO REACH FROM THE JCT. OF HWY 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 8.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15 FT. NORTH OF A WITNESS POST, 18 FT. WEST OF THE CENTER OF TEXAS EASTERN RD., AND 55 FT. SOUTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210048A 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST BRIDGE CORNER	155	5.50	18.0
MK # 2	ELECTRIC METER	88	13.60	44.6
MK # 3	TELEPHONE BOX	329	4.30	14.1

AZ Mark Station	210048
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

33.3622 91.1755Elevation based on levels from AHTD GPS Mon 210046, which was based on static GPS observations from NGS BM L 18 42 During job 020572 by crew s5102 in January 2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210049	2/11/2015	AHTD	DESHA	4	020572

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	504,352.7827
Easting (M)	473,911.2594
Elevation (M)*	
Northing (SFT)	1,654,697.4212
Easting (SFT)	1,554,823.8569
Elevation (SFT)*	
Convergence Angle	0 26 44.6960658
Scale Factor	0.999946387
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	33	36	17.7497604
Longitude	91	12	12.8876760
Ellipsoid Height (M):	22.575		
Geoid Height (M):	-26.501		

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 10.5 MILES TO SPRAGUE ST. GO SOUTH (RIGHT) ON SPRAGUE ST. FOR 0.3 MILES TO THE TOP OF THE LEVEE TO THE STATION ON THE RIGHT. THE STATION IS 6 FT. NORTH OF A WITNESS POST, AND 21 FT. NORTH OF THE CENTER OF THE BIKE ROUTE ONTOP OF THE LEVEE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210049 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	METAL POST MARKED 800	84	1.40	4.6
MK # 2	HISTORICAL MARKER	265	28.70	94.2
MK # 3				

AZ Mark Station	210049A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

GPS elevation only

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210049A	2/11/2015	AHTD	DESHA	4	020572

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,814.5094	
Easting (M)	473,569.1341	
Elevation (M)*		
Northing (SFT)	1,656,212.2696	
Easting (SFT)	1,553,701.4008	
Elevation (SFT)*		

Convergence Angle	0	26	37.3460703
Scale Factor	0.999945845		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	GEOID12A			
Latitude	33	36	32.8226652	
Longitude	91	12	26.0199216	
Ellipsoid Height (M):	14.924			
Geoid Height (M):	-26.498			

Location Description

TO REACH FROM THE JCT. OF HWY. 65 AND HWY. 4 IN MCGEHEE. GO EAST ON HWY. 4 FOR 10.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 4 FT. WEST OF A WITNESS POST, 39 FT. WEST OF THE CENTERLINE OF HWY. 4 EAST, AND 62 FT. NORTH OF THE CENTERLINE OF HWY. 4. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "210049A 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	155	6.80	22.3
MK # 2	POWER POLE	324	12.10	39.7
MK # 3				

AZ Mark Station	210049
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSB6
Ref Mon # 2	MSGN
Ref Mon # 3	RACM

Comments

GPS elevation only

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210050	12/12/2017	ARDOT	DESHA	65	020678,020715

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	511,785.4572	0.0010
Easting (M)	453,411.8640	0.0010
Elevation (M)*	44.403	
Northing (SFT)	1,679,082.7875	
Easting (SFT)	1,487,568.7571	
Elevation (SFT)*	145.679	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	40	23.4611184	
Longitude	91	25	26.4432324	
Ellipsoid Height (M):	18.276			0.0030
Geoid Height (M):	-26.164			0.0030

Convergence Angle	0	19	20.5504114
Scale Factor	0.999938224		
Elevation Adjust. Factor	0.9999930318		
Combined Adjust. Factor	0.9999312562		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE HIGHWAY 1, IN McGEHEE. TRAVEL NORTH ALONG US HIGHWAY 65, 3.0 MILES TO THE STATION ON THE LEFT. THE STATION IS SET IN THE MEDIAN, 48 FEET WEST OF THE CENTERLINE OF US HIGHWAY 65 NORTH, 35 FEET EAST OF US HIGHWAY 65 SOUTH AND 3 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "210050 2017" SET ON TOP OF A 5/8"INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE PEDESTAL	16	41.45	136.0
MK # 2	TELEPHONE PEDESTAL	282	44.50	146.0
MK # 3				

AZ Mark Station	210050A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS MILHOLEN.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210050A	12/12/2017	ARDOT	DESHA	65	020678,020715

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	512,061.4489	0.0010
Easting (M)	453,236.0742	0.0010
Elevation (M)*	44.121	
Northing (SFT)	1,679,988.2703	
Easting (SFT)	1,486,992.0201	
Elevation (SFT)*	144.753	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	40	32.4514020	
Longitude	91	25	33.2075172	
Ellipsoid Height (M):	17.995			0.0030
Geoid Height (M):	-26.161			0.0030

Convergence Angle	0	19	16.7645042
Scale Factor	0.999937952		
Elevation Adjust. Factor	0.9999930761		
Combined Adjust. Factor	0.9999310285		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE HIGHWAY 1, IN McGEHEE. TRAVEL NORTH ALONG US HIGHWAY 65, 3.2 MILES TO THE STATION ON THE LEFT. THE STATION IS SET IN THE MEDIAN, 52 FEET WEST OF THE CENTERLINE OF US HIGHWAY 65 NORTH, 32 FEET EAST OF US HIGHWAY 65 SOUTH AND 3 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "21005A 2017" SET ON TOP OF A 5/8"INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	15	45.11	148.0
MK # 2	TELEPHONE PEDESTAL	48	34.44	113.0
MK # 3				

AZ Mark Station	210050
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS MILHOLEN.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210051	10/9/2018	ARDOT	DESHA	35	020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	496,386.0410	0.0020
Easting (M)	460,376.9962	0.0020
Elevation (M)*		
Northing (SFT)	1,628,559.8695	
Easting (SFT)	1,510,420.1950	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	32	2.2674840	
Longitude	91	20	59.8457040	
Ellipsoid Height (M):	14.225			0.0060
Geoid Height (M):	-26.267			

Convergence Angle	0	21	49.7625652
Scale Factor	0.999956364		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION 0F STATE HIGHWAY 65/278 AND 35, SOUTH OF McGHEE, GO SOUTH ON HIGHWAY 35 FOR 1.45 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 40.4' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210051 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	273	17.68	58.0
MK # 2				
MK # 3				

AZ Mark Station	210051A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210051A	10/9/2018	ARDOT	DESHA	35	020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	496,415.0431	0.0020
Easting (M)	460,725.6465	0.0020
Elevation (M)*		
Northing (SFT)	1,628,655.0206	
Easting (SFT)	1,511,564.0586	
Elevation (SFT)*		

Convergence Angle	0	21	57.3296729	
Scale Factor	0.999956328			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	32	3.1367760	
Longitude	91	20	46.3255440	
Ellipsoid Height (M):	14.742			0.0070
Geoid Height (M):	-26.274			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION 0F STATE HIGHWAY 65/278 AND 35, SOUTH OF McGHEE, GO SOUTH ON HIGHWAY 35 FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 47' OF THE C/L OF THE HIGHWAY AND 11' WEST OF A FIELD ROAD . THE STATION MARK IS A STANDARD 2" CAP STAMPED "210051A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TRANSFORMER	313	8.53	28.0
MK # 2	METER POLE	288	7.32	24.0
MK # 3				

AZ Mark Station	210051
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210052	10/9/2018	ARDOT	DESHA	35	020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	496,789.2347	0.0020
Easting (M)	464,753.6399	0.0020
Elevation (M)*		

Northing (SFT)	1,629,882.6808	
Easting (SFT)	1,524,779.2336	
Elevation (SFT)*		

Convergence Angle	0	23	24.7621453
Scale Factor	0.999955855		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12B	
Latitude	33 32 14.4196800	
Longitude	91 18 10.1098440	
Ellipsoid Height (M):	14.437	0.0060
Geoid Height (M):	-26.350	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION 0F STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 1.3 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 31' OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210052 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF A CMP	264	7.01	23.0
MK # 2				
MK # 3				

AZ Mark Station	210052A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210052A	10/9/2018	ARDOT	DESHA	35	020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	496,792.2442	
Easting (M)	465,194.0169	
Elevation (M)*		
Northing (SFT)	1,629,892.5545	
Easting (SFT)	1,526,224.0371	
Elevation (SFT)*		

Convergence Angle	0	23	34.3158101
Scale Factor	0.999955855		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	32	14.4196800
Longitude	91	17	53.0403000
Ellipsoid Height (M):	16.090		
Geoid Height (M):	-26.358		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION 0F STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 1.55 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 38' OF THE C/L OF THE HIGHWAY AND 9' EAST OF A FIELD ROAD. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210052A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	278	8.53	28.0
MK # 2	WATER WELL	216	11.58	38.0
MK # 3				

AZ Mark Station	210052
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210053	10/9/2018	ARDOT	DESHA	35	020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)
Northing (M)	497,054.1349
Easting (M)	468,983.0527
Elevation (M)*	
Northing (SFT)	1,630,751.7743
Easting (SFT)	1,538,655.2321
Elevation (SFT)*	
Convergence Angle	0 24 56.5533813
Scale Factor	0.999955537
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	32	22.0523640
Longitude	91	15	26.1063360
Ellipsoid Height (M):	13.061		
Geoid Height (M):	-26.421		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION 0F STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 3.95 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 45' OF THE C/L OF THE HIGHWAY AND 100' WEST OF A FIELD ROAD. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210053 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CULVERT	90	25.30	83.0
MK # 2				
MK # 3				

AZ Mark Station	210053A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
210053A	10/9/2018	ARDOT	DESHA	35	020629

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	496,991.6281	
Easting (M)	469,389.8281	
Elevation (M)*		
Northing (SFT)	1,630,546.6999	
Easting (SFT)	1,539,989.7944	
Elevation (SFT)*		

Convergence Angle	0	25	5.3679656
Scale Factor			0.999955626
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	32	19.9274280
Longitude	91	15	10.3573080
Ellipsoid Height (M):	14.397		
Geoid Height (M):	-26.427		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION 0F STATE HIGHWAY 159N, 208S AND 35E, IN HALLEY, GO EAST ON HIGHWAY 35 FOR 4.2 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 30' OF THE C/L OF THE HIGHWAY AND WEST OF A FIELD ROAD. THE STATION MARK IS A STANDARD 2" CAP STAMPED "210053A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW END OF GUARD RAIL	84	11.58	38.0
MK # 2				
MK # 3				

AZ Mark Station	210053A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	MSGN

Comments

Position and GPS elevation determined in October 2018 during job 020629. The elevation on NGS BM H 243 was constrained during proccessing.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220001A	12/17/1992	AHTD	DREW	425	11,R20108,020462,001873,02

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	502,056.2002	
Easting (M)	418,475.8326	
Elevation (M)*	81.690	
Northing (SFT)	1,647,162.7168	
Easting (SFT)	1,372,949.4608	
Elevation (SFT)*	268.013	

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	35	11.9543028
Longitude	91	48	3.4584732
Ellipsoid Height (M):	55.781		
Geoid Height (M):	-25.635		

Convergence Angle	0	6	41.0416193
Scale Factor	0.999948811		
Elevation Adjust. Factor	0.9999871803		
Combined Adjust. Factor	0.9999359919		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 0.47 KM (0.29 MI) TO A PASTURE OWNED BY THE UNIVERSITY OF ARKANSAS AT MONTICELLO AND THE STATION ON THE RIGHT. THE STATION IS 17.37 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 42.67 METERS SOUTHWEST OF A DRIVEWAY AND 0.69 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "9222001A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 870.751 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN CROSS TIE POST	185	5.04	16.5
MK # 2	NBC IN CROSS TIE POST	356	23.35	76.6
MK # 3	CENTER OF TOP OF R/W MARKER	87	35.93	117.9

AZ Mark Station	220013
Geodetic Azimuth	178 14 55.03066
Grid Azimuth	178 08 13.98567

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

OLD PN = 92220001A. 3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220002	12/17/1992	AHTD	DREW	425	R20108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	509,971.2721	
Easting (M)	418,293.2810	
Elevation (M)*	87.514	
Northing (SFT)	1,673,130.7485	
Easting (SFT)	1,372,350.5394	
Elevation (SFT)*	287.119	

Convergence Angle	0	6	37.4101330
Scale Factor	0.999939916		
Elevation Adjust. Factor	0.9999862664		
Combined Adjust. Factor	0.9999261832		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	39	28.8800280
Longitude	91	48	9.9468540
Ellipsoid Height (M):	60.998		
Geoid Height (M):	-26.516		

Location Description

FROM THE JCT. OF HWY. 425 AND HWY. 4 IN MONTICELLO, GO NORTH ON HWY. 425 FOR 1.95 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47.0 FEET EAST OF THE CENTERLINE OF HWY. 425, 27.0 FEET SOUTHEAST OF THE ENTRANCE TO THE AHTD AREA LOT AND 10 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	21	46.00	150.9
MK # 2	NBC IN LIGHT POLE	82	26.98	88.5
MK # 3	NBC IN POWER POLE	209	42.68	140.0

AZ Mark Station	92220002A AZ. MK.
Geodetic Azimuth	355 25 00.78728
Grid Azimuth	355 18 23.37906

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	TARRY

Comments

OLD PN = 92220002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220002A	12/17/1992	AHTD	DREW	425	R20108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	510,198.0331	
Easting (M)	418,274.6640	
Elevation (M)*	88.489	
Northing (SFT)	1,673,874.7136	
Easting (SFT)	1,372,289.4601	
Elevation (SFT)*	290.318	

Convergence Angle	0	6	37.0151729
Scale Factor	0.999939683		
Elevation Adjust. Factor	0.9999861134		
Combined Adjust. Factor	0.9999257972		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	39	36.2415852	
Longitude	91	48	10.6525296	
Ellipsoid Height (M):	61.970			
Geoid Height (M):	-26.517			

Location Description

FROM JCT. OF HWY. 425 AND HWY. 4 IN MONTICELLO, GO NORTH ON HWY. 425 FOR 2.09 MILES TO THE STATION ON THE RIGHT. THE STATION IS 49.0 FEET EAST OF THE CENTERLINE OF HWY. 425 AND 3.10 FEET WEST OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 24" PINE TREE	167	40.15	131.7
MK # 2	NBC IN POWER POLE	288	30.12	98.8
MK # 3	NBC IN 5" PINE TREE	350	22.53	73.9

AZ Mark Station	92220002
Geodetic Azimuth	175 25 00.39615
Grid Azimuth	175 18 23.37906

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	TARRY

Comments

OLD PN = 92220002A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220003	4/4/1993	AHTD	DREW	425	R20115,R20125

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	519,372.7851	
Easting (M)	416,486.6610	
Elevation (M)*	117.418	
Northing (SFT)	1,703,975.5458	
Easting (SFT)	1,366,423.3203	
Elevation (SFT)*	385.229	

Convergence Angle	0	5	58.5175229
Scale Factor	0.999931345		
Elevation Adjust. Factor	0.9999815736		
Combined Adjust. Factor	0.9999129199		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	44	34.1488104
Longitude	91	49	19.4363256
Ellipsoid Height (M):	90.888		
Geoid Height (M):	-26.530		

Location Description

FROM THE JCT. OF HWY. 425 AND A PAVED COUNTY ROAD IN MONTONGO, GO SOUTH ON HWY. 425 FOR 0.24 MILES TO THE STATION ON THE RIGHT. THE STATION IS 176.0 FEET SOUTH OF A COUNTY ROAD, 37.54 FEET WEST OF THE CENTERLINE OF HWY. 425 AND 2.0 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	202	46.57	152.8
MK # 2	USC&GS BENCH MARK W 77 1935	243	60.41	198.2
MK # 3	NBC IN 20" PINE TREE	315	64.71	212.3

AZ Mark Station	93220003A AZ. MK.
Geodetic Azimuth	149 46 02.52338
Grid Azimuth	149 40 03.98004

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	TARRY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220003A	5/5/1993	AHTD	DREW	425	R20115,R20125

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	518,836.8462	
Easting (M)	416,800.2440	
Elevation (M)*	103.132	
Northing (SFT)	1,702,217.2196	
Easting (SFT)	1,367,452.1339	
Elevation (SFT)*	338.359	

Convergence Angle	0	6	5.3160158
Scale Factor			0.999931776
Elevation Adjust. Factor			0.9999838155
Combined Adjust. Factor			0.9999155926

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	44	16.7350884	
Longitude	91	49	7.2894504	
Ellipsoid Height (M):	76.574			
Geoid Height (M):	-26.530			

Location Description

FROM THE JCT. OF HWY. 425 AND A PAVED COUNTY ROAD IN MONTONGO, GO SOUTH ON HWY. 425 FOR 0.62 MILES TO THE STATION ON THE LEFT. THE STATION IS 37.0 FEET EAST OF THE CENTERLINE OF HWY. 425, 97 FEET NORTHWEST OF A MOBILE HOME AND 2.50 FEET WEST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN CROSS TIE POST	337	28.10	92.2
MK # 2	NBC IN 24" OAK TREE	0	26.26	86.2
MK # 3	NBC IN POWER POLE	25	7.53	24.7

AZ Mark Station	93220003
Geodetic Azimuth	329 46 09.27011
Grid Azimuth	329 40 03.98004

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	TARRY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220004	2/5/1998	AHTD	DREW	4	001800

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	506,278.6952
Easting (M)	405,368.3040
Elevation (M)*	43.662
Northing (SFT)	1,661,016.0192
Easting (SFT)	1,329,945.8440
Elevation (SFT)*	143.248
Convergence Angle	0 1 56.5778536
Scale Factor	0.999943856
Elevation Adjust. Factor	0.9999931481
Combined Adjust. Factor	0.9999370044

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 37 29.5458060
Longitude	91 56 31.7102136
Ellipsoid Height (M):	17.971
Geoid Height (M):	-25.691

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 1.37 KM (0.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.045 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 3.17 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220004 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST END OF NORTHWEST HEADW ALL	3	50.40	165.3
MK # 2	COMBINATION POLE	29	48.69	159.8
MK # 3	COMBINATION POLE	202	44.12	144.7

AZ Mark Station	220004A
Geodetic Azimuth	210 13 33.40228
Grid Azimuth	210 11 36.85306

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220004A	2/5/1998	AHTD	DREW	4	001800

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	505,853.2612	
Easting (M)	405,120.7600	
Elevation (M)*	42.453	
Northing (SFT)	1,659,620.2411	
Easting (SFT)	1,329,133.6934	
Elevation (SFT)*	139.281	

Convergence Angle	0	1	51.1972182
Scale Factor			0.999944333
Elevation Adjust. Factor			0.9999933378
Combined Adjust. Factor			0.9999376712

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	15.7411128
Longitude	91	56	41.3238012
Ellipsoid Height (M):	16.760		
Geoid Height (M):	-25.693		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.295 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4, 13.260 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL ROAD AND 5.20 METERS NORTHWEST OF A POWER POLE AND WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220004A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A 0.45 METER CMP	83	18.51	60.7
MK # 2	TELEPHONE JUNCTION BOX	123	5.22	17.1
MK # 3	R/R TIE FENCE CORNER POST	209	48.15	158.0

AZ Mark Station	220004
Geodetic Azimuth	30 13 28.07899
Grid Azimuth	30 11 36.85306

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220005	2/5/1998	AHTD	DREW	4	020248,001800

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,243.7182	
Easting (M)	409,059.9020	
Elevation (M)*	67.534	
Northing (SFT)	1,664,182.0988	
Easting (SFT)	1,342,057.3618	
Elevation (SFT)*	221.568	

Convergence Angle	0	3	16.7643853
Scale Factor	0.999942793		
Elevation Adjust. Factor	0.9999894018		
Combined Adjust. Factor	0.9999321954		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	0.7783872
Longitude	91	54	8.4408444
Ellipsoid Height (M):	41.765		
Geoid Height (M):	-25.665		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO EAST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 2.74 KM (1.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.039 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 13.421 METERS SOUTH OF THE CENTER OF U.S. 278 AND STATE HIGHWAY 4 AND 0.500 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	262	34.65	113.7
MK # 2	TELEPHONE JUNCTION BOX	310	45.73	150.0
MK # 3	WEST END OF A 0.45 METER CMP	61	55.20	181.1

AZ Mark Station	220005A
Geodetic Azimuth	336 37 18.38836
Grid Azimuth	336 34 01.63649

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220005A	2/5/1998	AHTD	DREW	4	020248,001800

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,501.1252	
Easting (M)	408,948.3370	
Elevation (M)*	63.451	
Northing (SFT)	1,665,026.6083	
Easting (SFT)	1,341,691.3356	
Elevation (SFT)*	208.172	

Convergence Angle	0	3	14.3466666
Scale Factor			0.999942512
Elevation Adjust. Factor			0.9999900426
Combined Adjust. Factor			0.9999325551

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	9.1369680
Longitude	91	54	12.7605852
Ellipsoid Height (M):	37.786		
Geoid Height (M):	-25.665		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278, STATE HIGHWAY 4 AND STATE HIGHWAY 133, LOCATED IN WILMAR, GO EAST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 2.57 KM (1.60 MI) TO THE JUNCTION OF TOWLER ROAD ON THE LEFT, TURN LEFT AND GO NORTH ON TOWLER ROAD FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.80 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 4.30 METERS WEST OF THE CENTER OF TOWLER ROAD AND 1.10 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	R/R TIE FENCE CORNER POST	268	1.30	4.3
MK # 2	TELEPHONE JUNCTION BOX	35	13.00	42.7
MK # 3	0.20 METER CEDAR TREE	336	24.60	80.7

AZ Mark Station	220005
Geodetic Azimuth	156 37 15.99566
Grid Azimuth	156 34 01.63649

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220006	2/5/1998	AHTD	DREW	4	001800

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	507,361.9642
Easting (M)	414,376.6320
Elevation (M)*	76.906
Northing (SFT)	1,664,570.0442
Easting (SFT)	1,359,500.6668
Elevation (SFT)*	252.316

Convergence Angle	0	5	12.2377124
Scale Factor			0.999942671
Elevation Adjust. Factor			0.9999879311
Combined Adjust. Factor			0.9999306028

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	4.4035872
Longitude	91	50	42.1245168
Ellipsoid Height (M):	51.264		
Geoid Height (M):	-25.642		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 4.10 KM (2.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 39.200 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.750 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 4.950 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	328	8.89	29.2
MK # 2	FIRE HYDRANT	15	4.39	14.4
MK # 3	WEST END OF A 0.50 METER CMP	98	35.35	116.0

AZ Mark Station	220006A
Geodetic Azimuth	89 31 02.61695
Grid Azimuth	89 25 50.31188

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220006A	2/5/1998	AHTD	DREW	4	001800

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,367.9152	
Easting (M)	414,975.5120	
Elevation (M)*	70.587	
Northing (SFT)	1,664,589.5685	
Easting (SFT)	1,361,465.4923	
Elevation (SFT)*	231.584	

Convergence Angle	0	5	25.2446206
Scale Factor			0.999942665
Elevation Adjust. Factor			0.9999889227
Combined Adjust. Factor			0.9999315884

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	4.5667104
Longitude	91	50	18.8850588
Ellipsoid Height (M):	44.947		
Geoid Height (M):	-25.640		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 AND STATE HIGHWAY 4 FOR 3.46 KM (2.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.593 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.108 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND STATE HIGHWAY 4 AND 0.500 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	77	4.33	14.2
MK # 2	EAST END 0F A 0.40 METER CMP	249	17.81	58.4
MK # 3	COMBINATION POLE	272	52.92	173.6

AZ Mark Station	220006
Geodetic Azimuth	269 31 15.48914
Grid Azimuth	269 25 50.31188

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	K 124
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220007	2/5/1998	AHTD	DREW	425	001800, 020475

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	506,621.0679	0.0020
Easting (M)	418,319.7011	0.0020
Elevation (M)*	79.494	

Northing (SFT)	1,662,139.2869	
Easting (SFT)	1,372,437.2194	
Elevation (SFT)*	260.806	

Convergence Angle	0	6	37.8437103
Scale Factor			0.999943493
Elevation Adjust. Factor			0.9999875250
Combined Adjust. Factor			0.9999310187

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	37	40.1346696
Longitude	91	48	9.1724544
Ellipsoid Height:			53.766
Grid Northing (Meters)			506,621.0692
Grid Easting (Meters)			418,319.6940

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	40.1346264
Longitude	91	48	9.1721808
Ellipsoid Height (M):	53.765		
Geoid Height (M):	-25.727		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 0.20 KM (0.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.494 METERS EAST OF THE CENTER OF A METAL PIPE SEWER LINE, 11.127 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 10.462 METERS NORTH OF THE CENTER OF A PAVED ENTRANCE TO A VANCANT LOT AND 0.500 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	214	31.63	103.8
MK # 2	CENTER OF MAN HOLE COVER	5	40.18	131.8
MK # 3	COMBINATION POLE	230	27.32	89.6

AZ Mark Station	220007A
Geodetic Azimuth	184 18 25.61986
Grid Azimuth	184 11 47.78042

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (STELL)
Ref Mon # 2	ARMO (K 124)
Ref Mon # 3	ARPB, MSGN (S 197A)

Comments

UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's A 351 & B 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS TO GPS POINTS WERE CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT. *********PREVIOUS ELEV. 79.511m (GEOID HT. -25.635m)*********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220007A	2/5/1998	AHTD	DREW	425	001800, 020475

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	506,146.4070	0.0022
Easting (M)	418,284.8840	0.0020
Elevation (M)*	83.551	
Northing (SFT)	1,660,582.0036	
Easting (SFT)	1,372,322.9903	
Elevation (SFT)*	274.117	

Convergence Angle	0	6	37.0677574
Scale Factor			0.999944022
Elevation Adjust. Factor			0.9999868883
Combined Adjust. Factor			0.9999309110

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	37	24.7293408
Longitude	91	48	10.5593544
Ellipsoid Height:			57.851
Grid Northing (Meters)			506,146.3912
Grid Easting (Meters)			418,284.8640

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	37	24.7298520	
Longitude	91	48	10.5585768	
Ellipsoid Height (M):			57.822	
Geoid Height (M):			-25.727	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425, U.S. HIGHWAY 278 AND STATE HIGHWAY 4, LOCATED IN MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 0.68 KM (0.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.870 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.500 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	178	52.23	171.4
MK # 2	MOST EASTERLY WOODEN POST OF A SIG N	307	10.98	36.0
MK # 3	NBC IN A 0.62 METER PINE TREE	84	31.90	104.6

AZ Mark Station	220007
Geodetic Azimuth	4 18 24.85185
Grid Azimuth	4 11 47.78042

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (STELL)
Ref Mon # 2	ARMO (K 124)
Ref Mon # 3	ARPB, MSGN (S 197)

Comments

UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's A 351 & B 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS TO GPS POINTS WERE CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT. *********PREVIOUS ELEV. 83.486m (GEOID HT. -25.635m)*********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220008	2/5/1999	AHTD	DREW	35	001930,020282,DDK

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	515,954.7611	
Easting (M)	408,924.2230	
Elevation (M)*	51.769	
Northing (SFT)	1,692,761.5787	
Easting (SFT)	1,341,612.2216	
Elevation (SFT)*	169.845	

Convergence Angle	0	3	13.9956230
Scale Factor	0.999934200		
Elevation Adjust. Factor	0.9999918758		
Combined Adjust. Factor	0.9999260764		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	42	43.5328884
Longitude	91	54	13.3877952
Ellipsoid Height (M):	26.120		
Geoid Height (M):	-25.649		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 12.29 KM (7.64 MI) TO THE STATION ON THE RIGHT. THE STATION IS 41.46 METERS NORTH OF THE CENTER OF A GRAVEL ROAD (STAFFORD ROAD), 17.26 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 35 AND 0.93 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST IN LINE IRON PIPE BRACE POST	120	18.56	60.9
MK # 2	TELEPHONE JUNCTION BOX	155	51.31	168.3
MK # 3	TELEPHONE JUNCTION BOX	182	34.42	112.9

AZ Mark Station	220008A
Geodetic Azimuth	309 28 44
Grid Azimuth	309 25 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220008A	2/5/1999	AHTD	DREW	35	001930,020282,DDK

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	516,262.4941	
Easting (M)	408,549.9160	
Elevation (M)*	48.342	
Northing (SFT)	1,693,771.1994	
Easting (SFT)	1,340,384.1827	
Elevation (SFT)*	158.602	

Convergence Angle	0	3	5.8649335
Scale Factor	0.999933930		
Elevation Adjust. Factor	0.9999924136		
Combined Adjust. Factor	0.9999263441		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	42	53.5327092
Longitude	91	54	27.9149076
Ellipsoid Height (M):	22.693		
Geoid Height (M):	-25.651		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 12.78 KM (7.94 MI) TO THE STATION ON THE RIGHT SET ON TOP OF A LEVEE. THE STATION IS 6.80 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 35 AND 1.22 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220008A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH MARK ON TOP OF METAL GUARD R AIL POST	144	3.45	11.3
MK # 2	PUNCH MARK ON TOP OF METAL GUARD R AIL POST	185	1.70	5.6
MK # 3	PUNCH MARK ON TOP OF METAL GUARD R AIL POST	282	5.88	19.3

AZ Mark Station	220008
Geodetic Azimuth	129 28 34
Grid Azimuth	129 25 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220009	2/5/1999	AHTD	DREW	35	001930,DDK,020282,020286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	512,499.7392
Easting (M)	413,875.5380
Elevation (M)*	73.431
Northing (SFT)	1,681,426.2277
Easting (SFT)	1,357,856.6609
Elevation (SFT)*	240.915

Convergence Angle	0	5	1.5178716
Scale Factor			0.999937391
Elevation Adjust. Factor			0.9999884764
Combined Adjust. Factor			0.9999258681

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	51.1940172
Longitude	91	51	1.2776688
Ellipsoid Height (M):	47.794		
Geoid Height (M):	-25.637		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 5.87 KM (3.65 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 35 AND 1.52 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSS TIE CORNER FENCE POST	118	22.85	75.0
MK # 2	CENTER OF HEADWALL	314	19.15	62.8
MK # 3				

AZ Mark Station	220009A
Geodetic Azimuth	113 53 08
Grid Azimuth	113 48 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220009A	2/5/1999	AHTD	DREW	35	001930,DDK,020282,020286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	512,304.3862
Easting (M)	414,318.4240
Elevation (M)*	82.310
Northing (SFT)	1,680,785.3071
Easting (SFT)	1,359,309.6961
Elevation (SFT)*	270.045

Convergence Angle	0	5	11.1354445
Scale Factor			0.999937580
Elevation Adjust. Factor			0.9999870830
Combined Adjust. Factor			0.9999246639

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	44.8317444
Longitude	91	50	44.0939400
Ellipsoid Height (M):	56.664		
Geoid Height (M):	-25.636		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 5.39 KM (3.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.18 METERS NORTH OF THE CENTER OF STATE HIGHWAY 35 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	213	23.66	77.6
MK # 2	TELEPHONE JUNCTION BOX	294	33.21	108.9
MK # 3				

AZ Mark Station	220009
Geodetic Azimuth	293 53 18
Grid Azimuth	293 48 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220010	2/23/1998	AHTD	DREW	83	020286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	511,964.1012	
Easting (M)	420,171.8860	
Elevation (M)*	80.492	
Northing (SFT)	1,679,668.8887	
Easting (SFT)	1,378,513.9293	
Elevation (SFT)*	264.081	

Convergence Angle	0	7	18.3135353
Scale Factor	0.999937922		
Elevation Adjust. Factor	0.9999873683		
Combined Adjust. Factor	0.9999252911		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	33.4413336
Longitude	91	46	56.8646976
Ellipsoid Height (M):	54.762		
Geoid Height (M):	-25.644		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTH, ON U.S. HIGHWAY 425 FOR 3.14 KM (1.95 MI) TO THE JUNCTION OF ROSE HILL CUT OFF ROAD ON THE RIGHT, GO RIGHT, EAST ON ROSE HILL CUT OFF ROAD FOR 1.93 KM (1.20 MI) TO THE JUNCTION OF STATE HIGHWAY 83 AND THE STATION ON THE EAST SIDE OF STATE HIGHWAY 83. THE STATION IS 25.28 METERS SOUTH OF THE EXTENDED CENTER OF ROSE HILL CUT OFF ROAD, 10.98 METERS EAST OF THE CENTER OF STATE HIGHWAY 83 AND 1.28 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "220010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER VALVE	305	29.48	96.7
MK # 2	GP	1	28.07	92.1
MK # 3	GAS METER	6	11.32	37.1

AZ Mark Station	220010A
Geodetic Azimuth	358 28 48.37752
Grid Azimuth	358 21 30.06544

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	E 292
Ref Mon # 3	220009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220010A	2/23/1999	AHTD	DREW	83	020286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	512,508.3941	
Easting (M)	420,156.2860	
Elevation (M)*	80.411	
Northing (SFT)	1,681,454.6230	
Easting (SFT)	1,378,462.7483	
Elevation (SFT)*	263.814	

Convergence Angle	0	7	17.9996804
Scale Factor			0.999937393
Elevation Adjust. Factor			0.9999873811
Combined Adjust. Factor			0.9999247749

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	40	51.1094892	
Longitude	91	46	57.4254624	
Ellipsoid Height (M):	54.678			
Geoid Height (M):	-25.645			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 3.14 KM (1.95 MI) TO THE JUNCTION OF ROSE HILL CUT OFF ROAD ON THE RIGHT, GO RIGHT, EAST ON ROSE HILL CUT OFF ROAD FOR 1.93 KM (1.20 MI) TO THE JUNCTION OF STATE HIGHWAY 83, GO LEFT, NORTH ON STATE HIGHWAY 83 FOR 0.16 KM (0.10 MI) TO A CURVE TO THE RIGHT AND A GRAVEL ROAD (COUNTY ROAD 83) STRAIGHT AHEAD, CONTINUE NORTH ON COUNTY ROAD 83 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.00 METERS WEST OF THE CENTER OF COUNTY ROAD 83 AND 2.095 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220010A
Geodetic Azimuth	178 28 48.06657
Grid Azimuth	178 21 30..6544

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	E 292
Ref Mon # 3	220009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220011	2/9/2000	AHTD	DREW	65	R20094

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	523,253.0818
Easting (M)	449,721.3178
Elevation (M)*	46.466
Northing (SFT)	1,716,706.1525
Easting (SFT)	1,475,460.6901
Elevation (SFT)*	152.447

Convergence Angle	0	18	1.6692099
Scale Factor			0.999928524
Elevation Adjust. Factor			0.9999927080
Combined Adjust. Factor			0.9999212325

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	46	36.3314568	
Longitude	91	27	47.3803668	
Ellipsoid Height (M):	20.504			
Geoid Height (M):	-25.988			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 449.777 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	23	20.80	68.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220011A
Geodetic Azimuth	171 31 14.05372
Grid Azimuth	171 13 12.37967

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220011A	2/9/2000	AHTD	DREW	65	R20094

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	522,808.6046	
Easting (M)	449,789.9668	
Elevation (M)*	45.873	
Northing (SFT)	1,715,247.8969	
Easting (SFT)	1,475,685.9161	
Elevation (SFT)*	150.502	

Convergence Angle	0	18	3.1118424
Scale Factor	0.999928839		
Elevation Adjust. Factor	0.9999928011		
Combined Adjust. Factor	0.9999216406		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	46	21.8928432
Longitude	91	27	44.8028136
Ellipsoid Height (M):	19.923		
Geoid Height (M):	-25.990		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DREW-DESHA COUNTY LINE, LOCATED ON THE NORTHEAST SIDE OF WINCHESTER, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.77 KM (0.48 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 449.777 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220011
Geodetic Azimuth	351 31 15.48666
Grid Azimuth	351 13 12.37967

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220012	2/9/2000	AHTD	DREW	65	020138

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	517,243.6351	
Easting (M)	450,672.1007	
Elevation (M)*	46.155	
Northing (SFT)	1,696,990.1595	
Easting (SFT)	1,478,580.0504	
Elevation (SFT)*	151.427	

Convergence Angle	0	18	21.6545202	
Scale Factor			0.999933198	
Elevation Adjust. Factor			0.9999927568	
Combined Adjust. Factor			0.9999259553	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	43	21.1120680	
Longitude	91	27	11.6725896	
Ellipsoid Height (M):	20.130			
Geoid Height (M):	-26.015			

Location Description

TO REACH THE STATION FORM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO NORTH ON U.S. HIGHWAY 65 FOR 0.79 KM (0.49 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.30 METERS NORTH OF A FIELD ENTRANCE, 12.85 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.142 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END CMP	165	16.15	53.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220012A
Geodetic Azimuth	171 11 01.22097
Grid Azimuth	170 52 39.55920

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220012A	2/9/2000	AHTD	DREW	65	020138

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	516,714.3043	
Easting (M)	450,757.0975	
Elevation (M)*	46.321	
Northing (SFT)	1,695,253.5134	
Easting (SFT)	1,478,858.9107	
Elevation (SFT)*	151.971	

Convergence Angle	0	18	23.4408239
Scale Factor			0.999933652
Elevation Adjust. Factor			0.9999927308
Combined Adjust. Factor			0.9999263833

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	43	3.9161424
Longitude	91	27	8.4809988
Ellipsoid Height (M):	20.316		
Geoid Height (M):	-26.017		

Location Description

TO REACH THE STATION FORM THE JUNCTION OF U.S. HIGHWAY 65 AND THE DESHA-DREW COUNTY LINE, LOCATED IN TILLAR, GO NORTH ON U.S. HIGHWAY 65 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.65 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.142 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220012
Geodetic Azimuth	351 11 02.99274
Grid Azimuth	350 52 39.55920

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	210004
Ref Mon # 3	090007

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220013	3/8/2001	AHTD	DREW	425	20111, 020462,001873,02047

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	501,185.9605	
Easting (M)	418,504.1355	
Elevation (M)*	82.023	
Northing (SFT)	1,644,307.6054	
Easting (SFT)	1,373,042.3179	
Elevation (SFT)*	269.104	

Convergence Angle	0	6	41.6191885
Scale Factor	0.999949883		
Elevation Adjust. Factor	0.9999871281		
Combined Adjust. Factor	0.9999370117		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	34	43.7054844
Longitude	91	48	2.4265296
Ellipsoid Height (M):	56.130		
Geoid Height (M):	-25.635		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 1.34 KM (0.83 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.50 METERS NORTH OF THE CENTER OF A PAVED ENTRANCE TO A FIELD, 16.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 870.751 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	92220001A
Geodetic Azimuth	358 14 55.60147
Grid Azimuth	358 08 13.98567

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220014	3/8/2001	AHTD	DREW	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	496,646.9992	
Easting (M)	417,930.6531	
Elevation (M)*	71.076	
Northing (SFT)	1,629,416.0299	
Easting (SFT)	1,371,160.8177	
Elevation (SFT)*	233.189	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	32	16.4113512	
Longitude	91	48	24.9975432	
Ellipsoid Height (M):	45.274			
Geoid Height (M):	-25.637			

Convergence Angle	0	6	28.9864024	
Scale Factor	0.999955772			
Elevation Adjust. Factor	0.9999888460			
Combined Adjust. Factor	0.9999446185			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.99 KM (3.72 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 7.90 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 880.861 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220014A
Geodetic Azimuth	201 49 56.50793
Grid Azimuth	201 43 27.56747

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220014A	3/8/2001	AHTD	ASHLEY	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	495,828.7397
Easting (M)	417,604.6257
Elevation (M)*	63.645
Northing (SFT)	1,626,731.4568
Easting (SFT)	1,370,091.1762
Elevation (SFT)*	208.809

Convergence Angle	0	6	21.8807380
Scale Factor			0.999956887
Elevation Adjust. Factor			0.9999900121
Combined Adjust. Factor			0.9999468996

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	31	49.8712908
Longitude	91	48	37.6932420
Ellipsoid Height (M):	37.859		
Geoid Height (M):	-25.638		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 6.97 KM (4.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220014A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 880.861 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220014
Geodetic Azimuth	21 49 49.494383
Grid Azimuth	21 43 27.567472

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220015	3/8/2001	AHTD	DREW	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	493,247.6704
Easting (M)	416,241.2986
Elevation (M)*	56.262
Northing (SFT)	1,618,263.3986
Easting (SFT)	1,365,618.3272
Elevation (SFT)*	184.586

Convergence Angle	0	5	52.2118087
Scale Factor			0.999960510
Elevation Adjust. Factor			0.9999911707
Combined Adjust. Factor			0.9999516811

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	30	26.1712368
Longitude	91	49	30.7027524
Ellipsoid Height (M):	30.481		
Geoid Height (M):	-25.644		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 9.74 KM (6.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 14.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220015 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 731.911 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	152	3.75	12.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220015A
Geodetic Azimuth	24 05 20.121537
Grid Azimuth	23 59 27.865636

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220015 1	3/11/2025	AHTD	Ashley	189	ASHLEY CO. AMH

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	463,043.3878	0.0020
Easting (M)	417,500.4527	0.0020
Elevation (M)*	54.602	
Northing (SFT)	1,519,168.1815	
Easting (SFT)	1,369,749.4019	
Elevation (SFT)*	179.140	

Convergence Angle	0	6	18.3166154
Scale Factor	1.000015073		
Elevation Adjust. Factor	0.9999914312		
Combined Adjust. Factor	1.0000065041		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	33	14	5.7028776
Longitude	91	48	44.0612640
Ellipsoid Height (M):	28.812	0.0130	
Geoid Height (M):	-25.791		

Location Description

TO REACH FROM THE INTERSECTION OF WASHINGTON ST AND HWY 189, TRAVEL NORTH ALONG HIGHWAY 189 FOR 0.4 MILES TO THE STATION ON THE RIGHT(EAST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 220015, 2015 SET ON TOP OF A 5/8IN REBAR 4FT IN LENGTH SET FLUSH WITH THE GROUND. THE STATION IS 32.5FT EAST OF THE CROWN OF HIGHWAY 189 AND 148FT SOUTH OF THE CROWN OF W FOOTE ST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH METER LOOP	285	14.00	45.9
MK # 2				
MK # 3				

AZ Mark Station	220015A_1
Geodetic Azimuth	182 11 01
Grid Azimuth	182 04 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHB
Ref Mon # 2	ARMO
Ref Mon # 3	ARLV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220015A	3/8/2001	AHTD	DREW	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	493,916.3193	
Easting (M)	416,538.8755	
Elevation (M)*	55.826	
Northing (SFT)	1,620,457.1242	
Easting (SFT)	1,366,594.6274	
Elevation (SFT)*	183.156	

Convergence Angle	0	5	58.6903195	
Scale Factor	0.999959556			
Elevation Adjust. Factor	0.9999912392			
Combined Adjust. Factor	0.9999507955			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	30	47.8582380	
Longitude	91	49	19.1275896	
Ellipsoid Height (M):	30.042			
Geoid Height (M):	-25.643			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 9.06 KM (5.63 MI) TO THE STATION ON THE RIGHT. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE STATION IS 16.50 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 5.50 METERS NORTH OF A GRAVEL DRIVE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 731.911 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CMP	152	3.75	12.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220015
Geodetic Azimuth	204 05 26.51203
Grid Azimuth	203 59 27.86564

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220015A 1	3/11/2025	AHTD	Ashley	189	ASHLEY CO. AMH

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	462,583.6135	0.0030
Easting (M)	417,483.7661	0.0020
Elevation (M)*	54.133	
Northing (SFT)	1,517,659.7386	
Easting (SFT)	1,369,694.6559	
Elevation (SFT)*	177.602	

Convergence Angle	0	6	17.9376818
Scale Factor	1.000016075		
Elevation Adjust. Factor	0.9999915048		
Combined Adjust. Factor	1.0000075797		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	33	13	50.7802440
Longitude	91	48	44.7383052
Ellipsoid Height (M):	28.339	0.0180	
Geoid Height (M):	-25.794		

Location Description

TO REACH FROM THE INTERSECTION OF WASHINGTON ST AND HIGHWAY 189, TRAVEL NORTH ALONG HWY 189 FOR 0.1 MILES TO THE STATION ON THE LEFT (WEST) SIDE OF THE ROAD.THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 220015A, 2025 SET ON TOP OF A5/8IN REBAR 4FT IN LENGTH SET FLUSH WITH THE GROUND. THE STATION IS 57FT WEST OF THE CROWN OF HIGHWAY 189 AND 466FT NORTH OF THE CENTER OF A CONCRETE DRIVEWAY TO THE DETENTION CENTER.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IN GROUND FIBER JUNCTION BOX	270	6.00	19.7
MK # 2				
MK # 3				

AZ Mark Station	220015_1
Geodetic Azimuth	2 11 01
Grid Azimuth	2 04 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHB
Ref Mon # 2	ARMO
Ref Mon # 3	ARLV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220016	3/8/2001	AHTD	DREW	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	487,360.7607	
Easting (M)	414,328.6588	
Elevation (M)*	64.073	
Northing (SFT)	1,598,949.4291	
Easting (SFT)	1,359,343.2747	
Elevation (SFT)*	210.213	

Convergence Angle	0	5	10.5418086
Scale Factor	0.999969388		
Elevation Adjust. Factor	0.9999899450		
Combined Adjust. Factor	0.9999593333		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	27	15.1880220	
Longitude	91	50	45.1545900	
Ellipsoid Height (M):	38.354			
Geoid Height (M):	-25.653			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 15.98 KM (9.93 MI) TO THE STATION ON THE LEFT, THE STATION IS 19.85 METERS SOUTH OF THE CENTER OF A PAVED DRIVE, 19.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 0.45 METERS EAST OF A CONCRETE RIGHT OF WAY MARKER AND 0.37 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220016 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 611.458 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220016A
Geodetic Azimuth	36 55 58.12586
Grid Azimuth	36 50 47.52431

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220016A	3/8/2001	AHTD	DREW	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	487,850.0573
Easting (M)	414,695.3195
Elevation (M)*	49.980
Northing (SFT)	1,600,554.7297
Easting (SFT)	1,360,546.2274
Elevation (SFT)*	163.976

Convergence Angle	0	5	18.5047266
Scale Factor			0.999968618
Elevation Adjust. Factor			0.9999921566
Combined Adjust. Factor			0.9999607748

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	27	31.0519296	
Longitude	91	50	30.9272352	
Ellipsoid Height (M):	24.245			
Geoid Height (M):	-25.651			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 15.37 KM (9.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220016A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 661.458 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220016
Geodetic Azimuth	216 56 05.96944
Grid Azimuth	216 50 47.52431

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220017	3/8/2001	AHTD	DREW	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	482,348.9389	
Easting (M)	413,934.8122	
Elevation (M)*	58.795	
Northing (SFT)	1,582,506.4770	
Easting (SFT)	1,358,051.1297	
Elevation (SFT)*	192.897	

Convergence Angle	0	5	1.8471181
Scale Factor	0.999977617		
Elevation Adjust. Factor	0.9999907732		
Combined Adjust. Factor	0.9999683904		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	32.5285560
Longitude	91	51	0.6894036
Ellipsoid Height (M):	33.069		
Geoid Height (M):	-25.651		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 21.08 KM (13.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.65 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 17.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220017 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 796.756 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END CMP	162	12.20	40.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220017A
Geodetic Azimuth	181 00 22.80283
Grid Azimuth	180 55 20.95818

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220017A	3/8/2001	AHTD	DREW	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	481,552.2918	
Easting (M)	413,921.9847	
Elevation (M)*	47.792	
Northing (SFT)	1,579,892.8107	
Easting (SFT)	1,358,009.0448	
Elevation (SFT)*	156.798	

Convergence Angle	0	5	1.5440308
Scale Factor	0.999978981		
Elevation Adjust. Factor	0.9999924999		
Combined Adjust. Factor	0.9999714811		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	6.6708576
Longitude	91	51	1.2309300
Ellipsoid Height (M):	22.092		
Geoid Height (M):	-25.650		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 83, LOCATED ON THE SOUTH SIDE OF MONTICELLO, GO SOUTH ON U.S. HIGHWAY 425 FOR 21.85 KM (13.58 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220017A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 796.765 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CONCRETE HEADWALL	350	12.20	40.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	220017
Geodetic Azimuth	1 00 22.504688
Grid Azimuth	0 55 20.958180

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220018	1/15/2002	AHTD	DREW	278	001930,DDK

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	507,298.7482
Easting (M)	410,095.0520
Elevation (M)*	
Northing (SFT)	1,664,362.6431
Easting (SFT)	1,345,453.5164
Elevation (SFT)*	
Convergence Angle	0 3 39.2471897
Scale Factor	0.999942734
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 38 2.5307160
Longitude	91 53 28.2707916
Ellipsoid Height (M):	37.495
Geoid Height (M):	-25.659

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 278 LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 FOR 8.20 KM (5.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278, 0.65 METERS SOUTH OF A BARB WIRE FENCE LINE, AND 0.52 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220018 2002 SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	220018A
Geodetic Azimuth	266 28 05
Grid Azimuth	266 24 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220018A	1/15/2002	AHTD	DREW	278	001930,DDK

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	507,233.5191
Easting (M)	409,056.2310
Elevation (M)*	
Northing (SFT)	1,664,148.6372
Easting (SFT)	1,342,045.3179
Elevation (SFT)*	

Convergence Angle	0	3	16.6844467
Scale Factor			0.999942804
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	38	0.4474500
Longitude	91	54	8.5836708
Ellipsoid Height (M):	41.706		
Geoid Height (M):	-25.665		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 278 LOCATED IN MONTICELLO, GO WEST ON U.S. HIGHWAY 278 FOR 9.25 KM (5.75 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.90 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278, 11.90 METERS EAST OF A FIELD ENTRANCE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220018A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	220018
Geodetic Azimuth	86 27 42
Grid Azimuth	86 24 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220019	1/15/2002	AHTD	DREW	N/A	001930,DDK

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	512,115.1781
Easting (M)	410,702.4210
Elevation (M)*	
Northing (SFT)	1,680,164.5468
Easting (SFT)	1,347,446.1929
Elevation (SFT)*	
Convergence Angle	0 3 52.5561294
Scale Factor	0.999937759
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	40	38.8449624
Longitude	91	53	4.4916936
Ellipsoid Height (M):	41.192		
Geoid Height (M):	-25.646		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35 LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 7.644KM (4.75 MI) TO AVERY ROAD (DREW COUNTY 109) ON THE LEFT, TURN LEFT ON AVERY ROAD FOR 2.961 KM (1.84 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.80 METERS SOUTHEAST OF THE CENTER OF A GRAVEL ROAD, 1.50 METERS NORTHWEST OF A WEBB WIRE FENCE LINE AND 0.70 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220019 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	220019A
Geodetic Azimuth	75 49 06
Grid Azimuth	75 45 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220019A	1/15/2002	AHTD	DREW	N/A	001930,DDK

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	512,280.7062	
Easting (M)	411,354.3660	
Elevation (M)*		
Northing (SFT)	1,680,707.6169	
Easting (SFT)	1,349,585.1158	
Elevation (SFT)*		

Convergence Angle	0	4	6.7267272
Scale Factor			0.999937599
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	40	44.1932232
Longitude	91	52	39.1730700
Ellipsoid Height (M):	47.590		
Geoid Height (M):	-25.643		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 7.644 KM (4.75 MI) TO AVERY ROAD (DREW COUNTY 109) ON THE LEFT, TURN LEFT ON AVERY ROAD AND GO 2.285 KM (1.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS EAST OF A FIELD ENTRANCE, 6.70 METERS NORTH OF A GRAVEL ROAD (AVERY ROAD), AND 0.85 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220019A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSS TIE GATE POST	283	4.60	15.1
MK # 2				
MK # 3				

AZ Mark Station	220019
Geodetic Azimuth	255 49 20
Grid Azimuth	255 45 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220020	1/15/2002	AHTD	DREW	N/A	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	521,339.0701	
Easting (M)	408,418.5570	
Elevation (M)*		
Northing (SFT)	1,710,426.5992	
Easting (SFT)	1,339,953.2158	
Elevation (SFT)*		

Convergence Angle	0	3	3.1073155
Scale Factor			0.999929820
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	45	38.3156280
Longitude	91	54	32.8419468
Ellipsoid Height (M):	39.743		
Geoid Height (M):	-25.658		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 13.985 KM (8.69 MI) TO ROCK SPRINGS ROAD ON THE RIGHT. TURN RIGHT (NORTH) ON ROCK SPRINGS ROAD AND GO NORTHEAST 5.488 KM (3.41 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.85 METERS SOUTH OF THE CENTER OF ROCK SPRINGS ROAD, 1.19 METERS NORTH OF A WEBB WIRE FENCE LINE AND 1.06 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220020 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN IN LINE BRACE POST	247	7.00	23.0
MK # 2	WOOD FENCE POST	88	6.50	21.3
MK # 3				

AZ Mark Station	220020A
Geodetic Azimuth	268 59 59
Grid Azimuth	268 56 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220020A	1/15/2002	AHTD	DREW	N/A	001930

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	521,331.3511	
Easting (M)	407,997.7770	
Elevation (M)*		
Northing (SFT)	1,710,401.2744	
Easting (SFT)	1,338,572.7067	
Elevation (SFT)*		

Convergence Angle	0	2	53.9550302
Scale Factor			0.999929825
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	45	38.0769012	
Longitude	91	54	49.1943456	
Ellipsoid Height (M):			42.665	
Geoid Height (M):			-25.659	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 35, LOCATED ON THE NORTH SIDE OF MONTICELLO, GO NORTHWEST ON STATE HIGHWAY 35 FOR 13.985 KM (8.69 MI) TO ROCK SPRINGS ROAD ON THE RIGHT. TURN RIGHT (NORTH) ON ROCK SPRINGS ROAD AND GO NORTHEAST 5.069 KM (3.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.90 METERS SOUTH OF THE CENTER OF ROCK SPRINGS ROAD AND 1.42 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220020A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE FENCE POST	170	1.85	6.1
MK # 2	CROSS TIE FENCE POST	118	3.07	10.1
MK # 3				

AZ Mark Station	220020
Geodetic Azimuth	88 59 50
Grid Azimuth	88 56 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220021	10/26/2004	AHTD	DREW	278	20418,020462,001873, 02067

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	507,646.3811	0.0010
Easting (M)	428,057.1324	0.0010
Elevation (M)*	59.257	

Northing (SFT)	1,665,503.1687	
Easting (SFT)	1,404,384.1085	
Elevation (SFT)*	194.412	

Convergence Angle	0	10	9.3734879
Scale Factor			0.999942395
Elevation Adjust. Factor			0.9999907007
Combined Adjust. Factor			0.9999330963

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	38	12.6435264
Longitude	33	38	12.6435264
Ellipsoid Height:			33.470
Grid Northing (Meters)			2,009,669.2138
Grid Easting (Meters)			5,525,812.0831

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	33	38	12.6433932
Longitude	91	41	51.2316816
Ellipsoid Height (M):			33.507 0.0030
Geoid Height (M):			-25.760 0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 3.6 MILES TO THE STATION MARK ON THE LEFT, NORTH 11.00 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220021 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST END OF PLASTIC CULVERT	222	5.50	18.0
MK # 2	C/L FARM ACCESS ROAD	248	9.80	32.2
MK # 3	POWER POLE	270	18.90	62.0

AZ Mark Station	220021A
Geodetic Azimuth	82 54 36
Grid Azimuth	82 44 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (CSAL)
Ref Mon # 2	ARMO (ZME1)
Ref Mon # 3	1ULM,ARPB,MSGN,(OKOM)

Comments

3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. Verified by crew S5101 tieing into USGS point 33JEK(NGVD29 193.061 to NAVD88 192.70) found in NW Collins Quad (ELEV . 59.2643m, GEOID HT. -25.676m)
**********OLD ELEV. 194.4478 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (Q 351)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220021A	10/26/2004	AHTD	DREW	278	20418,020462,001873, 02067

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	507,736.1927	0.0010
Easting (M)	428,762.1954	0.0010
Elevation (M)*	59.127	
Northing (SFT)	1,665,797.8255	
Easting (SFT)	1,406,697.3027	
Elevation (SFT)*	193.986	

Convergence Angle	0	10	24.6925831
Scale Factor			0.999942300
Elevation Adjust. Factor			0.9999907211
Combined Adjust. Factor			0.9999330217

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	38	15.4903164
Longitude	91	41	23.8612848
Ellipsoid Height:			33.330
Grid Northing (Meters)			507,736.1992
Grid Easting (Meters)			428,762.1890

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAD 88			
Geoid Datum:	Geoid12B			
Latitude	33	38	15.4901040	
Longitude	91	41	23.8610364	
Ellipsoid Height (M):			33.375	0.0030
Geoid Height (M):			-25.766	0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 4.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 6.90 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2.40 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220021A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	220021
Geodetic Azimuth	262 54 51
Grid Azimuth	262 44 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (CSAL)
Ref Mon # 2	ARMO (ZME1)
Ref Mon # 3	1ULM,ARPB,MSGN (OKOM)

Comments

3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. Verified by crew S5101 tieing into USGS point 33JEK(NGVD29 193.061 to NAVD88 192.70) found in NW Collins Quad (ELEV . 59.1421m, GEOID HT. -25.682m)
**********OLD ELEV. 194.0334 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (R 351)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220022	10/26/2004	AHTD	DREW	278	020418

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	509,187.4481	
Easting (M)	434,327.3560	
Elevation (M)*	54.735	
Northing (SFT)	1,670,559.1526	
Easting (SFT)	1,424,955.6671	
Elevation (SFT)*	179.578	

Convergence Angle	0	12	25.6765361
Scale Factor	0.999940774		
Elevation Adjust. Factor	0.9999914103		
Combined Adjust. Factor	0.9999321848		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	39	1.9959444
Longitude	91	37	47.6988672
Ellipsoid Height (M):	28.867		
Geoid Height (M):	-25.746		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 7.75 MILES TO THE STATION MARK ON THE LEFT, NORTH 6.65 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 13.70 METERS OF A WITNESS POST. THE MARK IS IN THE CENTERLINE OF I D LONG ROAD, THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220022 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN 0.1 METERS SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF CULVERT	255	5.70	18.7
MK # 2	EAST END OF CULVERT	22	6.30	20.7
MK # 3				

AZ Mark Station	220022A
Geodetic Azimuth	228 08 14
Grid Azimuth	227 55 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	CSAL
Ref Mon # 2	ZME1
Ref Mon # 3	OKOM

Comments

3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220022A	10/26/2004	AHTD	DREW	278	020418

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	508,814.5922	
Easting (M)	433,914.2700	
Elevation (M)*	56.007	
Northing (SFT)	1,669,335.8746	
Easting (SFT)	1,423,600.4008	
Elevation (SFT)*	183.751	

Convergence Angle	0	12	16.6744203
Scale Factor			0.999941165
Elevation Adjust. Factor			0.9999912107
Combined Adjust. Factor			0.9999323762

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	49.9417116
Longitude	91	38	3.7829580
Ellipsoid Height (M):	30.143		
Geoid Height (M):	-25.739		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 7.4 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 5.20 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 6.30 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220022A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MILE MARKER	205	11.60	38.1
MK # 2				
MK # 3				

AZ Mark Station	220022
Geodetic Azimuth	48 08 06
Grid Azimuth	47 55 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	CSAL
Ref Mon # 2	ZME1
Ref Mon # 3	OKOM

Comments

3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220023	10/26/2004	AHTD	DREW	278	020418,020678

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	511,325.4320	0.0010
Easting (M)	437,313.4766	0.0010
Elevation (M)*	53.266	
Northing (SFT)	1,677,573.5215	
Easting (SFT)	1,434,752.6311	
Elevation (SFT)*	174.757	

Convergence Angle	0	13	30.7244882	
Scale Factor			0.999938603	
Elevation Adjust. Factor			0.9999916409	
Combined Adjust. Factor			0.9999302444	

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)	
Latitude	33	40	11.0263584	
Longitude	91	35	51.4781808	
Ellipsoid Height:			27.360	
Grid Northing (Meters)			511,325.4331	
Grid Easting (Meters)			437,313.4620	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAD 88			
Geoid Datum:	Geoid12B			
Latitude	33	40	11.0263188	
Longitude	91	35	51.4776156	
Ellipsoid Height (M):			27.406	0.0030
Geoid Height (M):			-25.873	0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 10.1 MILES TO THE STATION MARK ON THE LEFT, NORTH 12.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220023 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	65	11.90	39.0
MK # 2	POWER POLE	61	7.20	23.6
MK # 3	CROSS TIE POST	245	13.20	43.3

AZ Mark Station	220023A
Geodetic Azimuth	67 25 08
Grid Azimuth	67 11 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (CSAL)
Ref Mon # 2	ARMO (ZME1)
Ref Mon # 3	1ULM,ARPB,MSGN (OKOM)

Comments

3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. (ELEV . 53.28055m, GEOID HT. -25.793m)
**********OLD ELEV. 174.8046 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (W 351) ALONG HWY. 278 THAT THEY ESTABLISHED IN 2018.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220023A	10/26/2004	AHTD	DREW	278	020418,020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	511,541.3837	0.0010
Easting (M)	437,827.0756	0.0010
Elevation (M)*	52.550	
Northing (SFT)	1,678,282.0230	
Easting (SFT)	1,436,437.6639	
Elevation (SFT)*	172.408	

Convergence Angle	0	13	41.9022341
Scale Factor			0.999938391
Elevation Adjust. Factor			0.9999917533
Combined Adjust. Factor			0.9999301448

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	40	17.9700492
Longitude	91	35	31.5075120
Ellipsoid Height:			26.642
Grid Northing (Meters)			511,541.3902
Grid Easting (Meters)			437,827.0450

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	33	40	17.9698332	
Longitude	91	35	31.5063240	
Ellipsoid Height (M):			26.684	0.0040
Geoid Height (M):			-25.881	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 35 AND STATE HIGHWAY 278, EAST OF MONTICELLO, GO EAST ON HIGHWAY 278 10.45 MILES TO THE STATION MARK ON THE LEFT, NORTH 10.45 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "220023A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWE POLE	251	23.45	76.9
MK # 2				
MK # 3				

AZ Mark Station	220023
Geodetic Azimuth	247 25 19
Grid Azimuth	247 11 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (CSAL)
Ref Mon # 2	ARMO (ZME1)
Ref Mon # 3	1ULM,ARPB,MSGN (OKOM)

Comments

3-wire Levels were ran from NGS D83 in Job 020418 by S5101 in July 2006. (ELEV . 52.56021m, GEOID HT. -25.801m)
**********OLD ELEV. 172.4413 SF BY S5103 IN 2006 UPDATED IN MARCH 2018 BY S5111 BASED OFF OF ONE OF THEIR 2ND ORDER NGS BM's (W 351) ALONG HWY. 278 THAT THEY ESTABLISHED IN 2018.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220024	9/20/2006	AHTD	Drew	CR359	001873,020462,020470

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	505,393.7502
Easting (M)	405,675.5480
Elevation (M)*	48.719
Northing (SFT)	1,658,112.6621
Easting (SFT)	1,330,953.8604
Elevation (SFT)*	159.838
Convergence Angle	0 2 3.2384658
Scale Factor	0.999944854
Elevation Adjust. Factor	0.9999923545
Combined Adjust. Factor	0.9999372089

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	0.8156460
Longitude	91	56	19.8096900
Ellipsoid Height (M):	23.044		
Geoid Height (M):	-25.690		

Location Description

To reach the station from highways 278 and 133 north in Wilmar go south at this intersection on south 7th street for 0.10 miles to Gates ave.. Turn right on Gates ave. and go 0.50 miles to south 12th street. Turn left on south 12th street and go 0.65 miles to the station on the left 15 feet north of the center of a gas line right of way. 8.90 feet east of the center of south 12th street and 31.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220024 2006" set on top of a 5/8 inch by 4 foot long rebar and is .060 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	gas line test valve	153	5.39	17.7
MK # 2	Telephone riser	44	9.33	30.6
MK # 3	Cable marker	242	12.19	40.0

AZ Mark Station	220024A
Geodetic Azimuth	205 24 08
Grid Azimuth	205 22 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220024A	9/20/2006	AHTD	Drew	CR359	01873,020462,020470,C2200

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	504,942.3421
Easting (M)	405,461.5130
Elevation (M)*	46.770
Northing (SFT)	1,656,631.6674
Easting (SFT)	1,330,251.6472
Elevation (SFT)*	153.444

Convergence Angle	0	1	58.5852910
Scale Factor			0.999945371
Elevation Adjust. Factor			0.9999926604
Combined Adjust. Factor			0.9999380318

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	36	46.1674944	
Longitude	91	56	28.1235228	
Ellipsoid Height (M):	21.098			
Geoid Height (M):	-25.692			

Location Description

To reach the station from the junction of highways 278, 133 and 7th street in Wilmar go south on 7th street for 0.10 miles to Gates ave., go right on Gates ave. and go 0.50 miles to south 12th street, turn left and go 0.95 miles on south 12th street to the station on the right 100.7 feet north of the center of a power line right of way. 8.0 feet west of the center of the road and 12.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220024A 2006" set on top of a 5/8 inch by 4 foot rebar and is 0.70 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	220024
Geodetic Azimuth	25 24 03
Grid Azimuth	25 22 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220025	9/20/2006	AHTD	Drew	NA	001873,020462,020470

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	502,713.9911	
Easting (M)	407,750.9390	
Elevation (M)*	49.924	
Northing (SFT)	1,649,320.8191	
Easting (SFT)	1,337,762.8724	
Elevation (SFT)*	163.793	

Convergence Angle	0	2	48.2558835
Scale Factor	0.999947995		
Elevation Adjust. Factor	0.9999921653		
Combined Adjust. Factor	0.9999401608		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	35	33.7859052
Longitude	91	54	59.3770176
Ellipsoid Height (M):	24.266		
Geoid Height (M):	-25.682		

Location Description

To reach the station from the junction of highways 133 north, south 7th street and 278 in Wilmar go south on 7th street for 0.90 miles to Drew county road 17 (Dave Knight road), turnleft on CR17 and go 1.20 miles to a "T" intersection. Turn right on CR16 (Sallis Rd.) and go 2.10 miles to the station on the left. 5.50 feet south of the center of the road and 11.0 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "220025 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	92	40.97	134.4
MK # 2				
MK # 3				

AZ Mark Station	220025A
Geodetic Azimuth	88 54 58
Grid Azimuth	88 52 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220025A	9/20/2006	AHTD	Drew	CR16	001873,020462,020470

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	502,724.1542
Easting (M)	408,265.8990
Elevation (M)*	53.029
Northing (SFT)	1,649,354.1626
Easting (SFT)	1,339,452.3703
Elevation (SFT)*	173.981

Convergence Angle	0	2	59.4347215
Scale Factor			0.999947984
Elevation Adjust. Factor			0.9999916780
Combined Adjust. Factor			0.9999396625

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	35	34.1017008
Longitude	91	54	39.4037748
Ellipsoid Height (M):	27.376		
Geoid Height (M):	-25.679		

Location Description

To reach the station from the junction of highways 133 north, south 7th street and 278 in Wilmar go south on 7th street for 0.90 miles to Drew county road 17 (Dave Knight road), turnleft on CR17 and go 1.20 miles to a "T" intersection. Turn right on CR16 (Sallis Rd.) and go 1.75 miles to the station on the left. 15.0 feet southeast of the center of the road and 19.0 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220025A 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fourteen inch pine tree	232	17.92	58.8
MK # 2				
MK # 3				

AZ Mark Station	220025
Geodetic Azimuth	268 55 09
Grid Azimuth	268 52 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220026	9/20/2006	AHTD	Drew	NA	001873, 020462,020470

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	500,829.6242
Easting (M)	413,648.0870
Elevation (M)*	64.237
Northing (SFT)	1,643,138.5254
Easting (SFT)	1,357,110.4321
Elevation (SFT)*	210.751

Convergence Angle	0	4	56.2111502
Scale Factor			0.999950317
Elevation Adjust. Factor			0.9999899192
Combined Adjust. Factor			0.9999402367

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	34	32.4058224
Longitude	91	51	10.7591940
Ellipsoid Height (M):	38.568		
Geoid Height (M):	-25.652		

Location Description

To reach the station from the intersection of highways 278 and 425 in Monticello go south on 425 for 3.20 miles to Bowser road on the right, turn right on Bowser road and go 3.10 miles to a stop sign at South Bowser road, turn right on South Bowser road and go 0.75 miles to the station on the left at sharp curve to the right. 35.60 feet southeast of the center of the road and 1.50 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220026 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	220026A
Geodetic Azimuth	274 58 37
Grid Azimuth	274 53 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83 (ELEV. 64.20795 m). UPDATED ELEV. IN JUNE OF 2012 BASED ON DIGITAL LEVELS BY B&F ENGINEERING BETWEEN & CONSTRAINING GPS POINTS 220013, 220025A, 220024A, & M 319.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220026A	9/20/2006	AHTD	Drew	NA	001873, 020462,020470

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	500,874.0112	
Easting (M)	413,129.7720	
Elevation (M)*	62.613	
Northing (SFT)	1,643,284.1517	
Easting (SFT)	1,355,409.9270	
Elevation (SFT)*	205.423	

Convergence Angle	0	4	44.9632500
Scale Factor			0.999950260
Elevation Adjust. Factor			0.9999901741
Combined Adjust. Factor			0.9999404345

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	34	33.8702772
Longitude	91	51	30.8558304
Ellipsoid Height (M):	36.960		
Geoid Height (M):	-25.655		

Location Description

To reach the station from the intersection of highways 278 and 425 in Monticello go south on 425 for 3.20 miles to Bowser road on the right, turn right on Bowser road and go 3.10 miles to a stop sign at South Bowser road, turn right on South Bowser road and go 1.10 miles to the station on the right 26.70 feet north of the center of the road and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "220026A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	220026
Geodetic Azimuth	94 58 26
Grid Azimuth	94 53 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220027	9/20/2006	AHTD	Drew	NA	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	501,409.9251	
Easting (M)	423,284.6680	
Elevation (M)*	72.971	
Northing (SFT)	1,645,042.3959	
Easting (SFT)	1,388,726.4483	
Elevation (SFT)*	239.407	

Convergence Angle	0	8	25.3888078	
Scale Factor	0.999949618			
Elevation Adjust. Factor	0.9999885485			
Combined Adjust. Factor	0.9999381671			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	34	50.6339616	
Longitude	91	44	57.0212304	
Ellipsoid Height (M):	47.355			
Geoid Height (M):	-25.640			

Location Description

To reach the station from the junction of highways 278 and 83 south on the square in Monticello go south on hwy-83 for 0.90 miles to Midway road on the left, turn left on Midwat road and go 0.40 miles to Old Troy road on the on the left, turn left on Old Troy road and go 3.30 miles to the station on the right. 9.70 feet south of the center of the road and 10.0 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "2200027 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Cross tie fence corner	89	11.16	36.6
MK # 2	Fence corner	45	16.46	54.0
MK # 3				

AZ Mark Station	220027A
Geodetic Azimuth	272 11 58
Grid Azimuth	272 03 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220027A	9/20/2006	AHTD	Drew	NA	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	501,423.5682	
Easting (M)	422,905.1780	
Elevation (M)*	73.718	
Northing (SFT)	1,645,087.1567	
Easting (SFT)	1,387,481.4048	
Elevation (SFT)*	241.855	

Convergence Angle	0	8	17.1528021
Scale Factor	0.999949600		
Elevation Adjust. Factor	0.9999884314		
Combined Adjust. Factor	0.9999380320		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	34	51.1067352
Longitude	91	45	11.7365112
Ellipsoid Height (M):	48.097		
Geoid Height (M):	-25.639		

Location Description

To reach the station from the junction of highways 278 and 83 south on the square in Monticello go south on hwy-83 for 0.90 miles to Midway road on the left, turn left on Midwat road and go 0.40 miles to Old Troy road on the on the left, turn left on Old Troy road and go 3.10 miles to the station on the left. 15.40 feet north of the center of the road and 1.5 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "2200027A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	236	22.07	72.4
MK # 2	24 inch Post oak tree	253	30.78	101.0
MK # 3				

AZ Mark Station	220027
Geodetic Azimuth	92 11 50
Grid Azimuth	92 03 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220028	9/20/2006	AHTD	Drew	35	001873,020462

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	502,287.1492	
Easting (M)	429,898.8370	
Elevation (M)*		
Northing (SFT)	1,647,920.4220	
Easting (SFT)	1,410,426.4344	
Elevation (SFT)*		

Convergence Angle	0	10	49.0070161
Scale Factor			0.999948565
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	35	18.5068680
Longitude	91	40	40.4184108
Ellipsoid Height (M):	29.131		
Geoid Height (M):	-25.685		

Location Description

To reach the station from the junction of highways 278 and 35 east of Monticello go southeast on hwy-35 for 5.50 miles to the station on the right in front of the Enon baptist church. 33.30 feet southwest of the center of hwy-35, 74.10 feet northwest of the center of a driveway to the church and 1.50 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "220028 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SE corner of a church	192	34.65	113.7
MK # 2	Light pole	240	16.64	54.6
MK # 3	SW corner of telephone riser	137	12.89	42.3

AZ Mark Station	220028A
Geodetic Azimuth	136 09 04
Grid Azimuth	135 58 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220028A	9/20/2006	AHTD	Drew	35	001873,020462

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	501,810.4352	
Easting (M)	430,359.6660	
Elevation (M)*		
Northing (SFT)	1,646,356.4028	
Easting (SFT)	1,411,938.3375	
Elevation (SFT)*		

Convergence Angle	0	10	58.9769947
Scale Factor			0.999949149
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	35	2.9858748
Longitude	91	40	22.6050384
Ellipsoid Height (M):	29.645		
Geoid Height (M):	-25.689		

Location Description

To reach the station from the junction of highways 278 and 35, east of Monticello go southeast on hwy-35 for 5.90 miles to the station on the left. 40.60 feet northeast of the center of hwy-35 and 1.50 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "220028A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole with transformer	128	24.63	80.8
MK # 2				
MK # 3				

AZ Mark Station	220028
Geodetic Azimuth	316 09 14
Grid Azimuth	315 58 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220029	9/20/2006	AHTD	Drew	CR49	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	499,724.6861
Easting (M)	428,048.8540
Elevation (M)*	
Northing (SFT)	1,639,513.4076
Easting (SFT)	1,404,356.9485
Elevation (SFT)*	
Convergence Angle	0 10 8.6859684
Scale Factor	0.999951754
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 33 55.5154056
Longitude	91 41 52.4600736
Ellipsoid Height (M):	33.928
Geoid Height (M):	-25.666

Location Description

To reach the station from the junction of highways 278 and 35 on the east side of Monticello go south on hwy-35 for 5.95 miles to county road 49, also called the "Enon-Dean road" on the right, turn right on CR49 and go 7.50 miles to a rail road crossing, turn left after crossing the tracks and go 0.35 miles to the station on the right. 24.70 feet west of the center of CR49, 182.0 feet south of a east-west treeline and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220029 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	220029A
Geodetic Azimuth	180 17 45
Grid Azimuth	180 07 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220029A	9/20/2006	AHTD	Drew	CR49	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	499,103.3021
Easting (M)	428,047.4800
Elevation (M)*	
Northing (SFT)	1,637,474.7503
Easting (SFT)	1,404,352.4406
Elevation (SFT)*	
Convergence Angle	0 10 8.6163641
Scale Factor	0.999952553
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 33 35.3461320
Longitude	91 41 52.5844356
Ellipsoid Height (M):	34.486
Geoid Height (M):	-25.666

Location Description

To reach the station from the junction of highways 278 and 35 on the east side of Monticello go south on hwy-35 for 5.95 miles to county road 49, also called the "Enon-Dean road" on the right, turn right on CR49 and go 7.50 miles to a rail road crossing, turn left after crossing the tracks and go 0.70 miles to the station on the right. 33.20 feet west of the center of CR49, 32.20 feet north of a gravel drive and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "220029A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North gate post	207	6.70	22.0
MK # 2	Power pole with guy wire	88	16.95	55.6
MK # 3				

AZ Mark Station	220029
Geodetic Azimuth	0 17 45
Grid Azimuth	0 07 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220030	9/21/2006	AHTD	Drew	NA	001873,020462,020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	511,483.9032	0.0010
Easting (M)	433,730.6154	0.0010
Elevation (M)*	56.845	
Northing (SFT)	1,678,093.4391	
Easting (SFT)	1,422,997.8607	
Elevation (SFT)*	186.499	

Convergence Angle	0	12	12.8911868
Scale Factor	0.999938432		
Elevation Adjust. Factor	0.9999910793		
Combined Adjust. Factor	0.9999295118		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	33	40	16.6052352
Longitude	91	38	10.5432180
Ellipsoid Height:	31.137		
Grid Northing (Meters)	511,483.9031		
Grid Easting (Meters)	433,730.5960		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	33	40	16.6052352	
Longitude	91	38	10.5424656	
Ellipsoid Height (M):	31.031			0.0040
Geoid Height (M):	-25.823			0.0040

Location Description

To reach the station from the junction of highways 293 and 138 north of Selma go west on hwy-138 for 4.40 miles to Lytle road on the left. Turn left on Lytle road passing through a gate and go 1.40 miles to a road junction, go left at the junction and continue ahead for 0.80 miles to a road on the left. Continue straight ahead for 0.30 miles to the station 6.00 feet east of the center of the road and 26.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "220030 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East gate post	168	31.09	102.0
MK # 2				
MK # 3				

AZ Mark Station	220030A
Geodetic Azimuth	358 26 52
Grid Azimuth	358 14 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (Warrport, Warrport Az.)
Ref Mon # 2	ARMO (ARCM,ARLR, UAM A
Ref Mon # 3	1ULM,ARPB,MSGN (W 77, T 8

Comments

OLD GEOID HT. -25.744m
**********ELEV.
ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220030A	9/21/2006	AHTD	Drew	NA	001873,020462,020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	512,071.3222	0.0010
Easting (M)	433,712.6026	0.0010
Elevation (M)*	57.505	
Northing (SFT)	1,680,020.6629	
Easting (SFT)	1,422,938.7637	
Elevation (SFT)*	188.664	

Convergence Angle	0	12	12.5451421
Scale Factor			0.999937855
Elevation Adjust. Factor			0.9999909757
Combined Adjust. Factor			0.9999288313

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	40	35.6739780
Longitude	91	38	11.1612372
Ellipsoid Height:			31.793
Grid Northing (Meters)			512,071.3172
Grid Easting (Meters)			433,712.5900

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	33	40	35.6741400	
Longitude	91	38	11.1607440	
Ellipsoid Height (M):			31.693	0.0050
Geoid Height (M):			-25.824	0.0050

Location Description

To reach the station from the junction of highways 293 and 138 north of Selma go west on hwy-138 for 4.40 miles to Lytle road on the left. Turn left on Lytle road passing through a gate and go 1.40 miles to a road junction, go left at the junction and continue ahead for 0.80 miles to a road on the left and the station mark in the middle of the intersection. 12.30 feet east of the center of the main road and 39.7 feet northwest of a witness post The station mark is a 2 1/2 inch cap stamped "220030A 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	220030
Geodetic Azimuth	178 26 52
Grid Azimuth	178 14 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (Warrport, Warrport Az.)
Ref Mon # 2	ARMO (ARCM,ARLR, UAM A
Ref Mon # 3	1ULM,ARPB,MSGN (W 77, T 8

Comments

OLD GEOID HT. -25.746m
**********ELEV.
ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS U 351.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220031	9/28/2006	AHTD	Drew	NA	001873,020462, 020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	510,454.8123	0.0010
Easting (M)	431,405.3129	0.0010
Elevation (M)*	56.854	
Northing (SFT)	1,674,717.1634	
Easting (SFT)	1,415,368.9307	
Elevation (SFT)*	186.527	

Convergence Angle	0	11	22.2939602
Scale Factor			0.999939457
Elevation Adjust. Factor			0.9999910779
Combined Adjust. Factor			0.9999305354

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	39	43.4610972
Longitude	91	39	40.9448988
Ellipsoid Height:			31.170
Grid Northing (Meters)			510,454.8081
Grid Easting (Meters)			431,405.3050

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	33	39	43.4612304	
Longitude	91	39	40.9445892	
Ellipsoid Height (M):			31.059	0.0040
Geoid Height (M):			-25.795	0.0040

Location Description

To reach the station from the junction of highways 278 and 355 on the east side of Monticello go east on hwy-278 for 5.10 miles to a gated gravel road on the left. Turn left through the gate and go 1.80 miles to the end of the road and the station. 2.20 feet west of the center of the road and 38.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "220031 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	220031A
Geodetic Azimuth	174 50 40
Grid Azimuth	174 39 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (Warrport, Warrport Az.)
Ref Mon # 2	ARMO (ARCM,ARLR, UAM A
Ref Mon # 3	1ULM,ARPB,MSGN (W 77, T 8

Comments

OLD GEOID HT. -25.714m
**********ELEV.
ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS S 351.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220031A	9/28/2006	AHTD	Drew	NA	001873,020462,020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	509,982.9149	0.0010
Easting (M)	431,449.4753	0.0010
Elevation (M)*	54.322	
Northing (SFT)	1,673,168.9466	
Easting (SFT)	1,415,513.8202	
Elevation (SFT)*	178.222	

Convergence Angle	0	11	23.2194418
Scale Factor			0.999939939
Elevation Adjust. Factor			0.9999914751
Combined Adjust. Factor			0.9999314147

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	39	28.1395800
Longitude	91	39	39.2918580
Ellipsoid Height:			28.630
Grid Northing (Meters)			509,982.9231
Grid Easting (Meters)			431,449.4540

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	33	39	28.1393100	
Longitude	91	39	39.2910300	
Ellipsoid Height (M):			28.554	0.0040
Geoid Height (M):			-25.795	0.0040

Location Description

To reach the station from the junction of highways 278 and 355 on the east side of Monticello go east on hwy-278 for 5.10 miles to a gated road on the left. Turn left through the gate and go 1.50 miles to the station on the right near the edge of the road. 140.0 feet north of a 24 inch culvert under the road, 7.60 feet east of the center of the road and 21.0 feet west of a witness post.The station mark is a 2 1/2 inch cap stamped "220031A 2006" set on top of a 5/8 inch by 4 foot long rebar and is 0.60 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	220031
Geodetic Azimuth	354 50 41
Grid Azimuth	354 39 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (Warrport, Warrport Az.)
Ref Mon # 2	ARMO (ARCM,ARLR, UAM A
Ref Mon # 3	1ULM,ARPB,MSGN (W 77, T 8

Comments

OLD GEOID HT. -25.713m
**********ELEV.
ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS S 351.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220032	3/5/2007	AHTD	Drew	278	01873, 020462,020470,C2200

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,232.1362	
Easting (M)	409,566.4960	
Elevation (M)*	61.977	
Northing (SFT)	1,664,144.1002	
Easting (SFT)	1,343,719.4123	
Elevation (SFT)*	203.335	

Convergence Angle	0	3	27.7664129
Scale Factor	0.999942806		
Elevation Adjust. Factor	0.9999902739		
Combined Adjust. Factor	0.9999330805		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	0.3863220
Longitude	91	53	48.7835088
Ellipsoid Height (M):	36.324		
Geoid Height (M):	-25.662		

Location Description

To reach the station from the junction of highways 278 and 530 west of Monticello go west on hwy-278 for 0.50 miles to the station on the left. 97.8 feet east of a gravel drive, 92.30 feet south of the center of hwy-278 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "220032 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Right of way marker	88	29.60	97.1
MK # 2				
MK # 3				

AZ Mark Station	M 319
Geodetic Azimuth	78 27 18
Grid Azimuth	78 23 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220033	3/5/2007	AHTD	Drew	35	001873, 020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	504,063.0661
Easting (M)	424,808.1710
Elevation (M)*	64.312
Northing (SFT)	1,653,746.9094
Easting (SFT)	1,393,724.8077
Elevation (SFT)*	210.997

Convergence Angle	0	8	58.6063430
Scale Factor			0.999946427
Elevation Adjust. Factor			0.9999899075
Combined Adjust. Factor			0.9999363350

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	16.6267368
Longitude	91	43	57.6714216
Ellipsoid Height (M):	38.701		
Geoid Height (M):	-25.649		

Location Description

To reach the station from the junction of highways 278 and 35 on the east side of Monticello go east on hwy-35 for 2.15 miles to the station on the right. 42.0 feet south of the center of hwy-35 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "220033 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	160	4.63	15.2
MK # 2	Fence corner	180	0.67	2.2
MK # 3	Water meter	191	4.42	14.5

AZ Mark Station	220033A
Geodetic Azimuth	93 07 56
Grid Azimuth	92 58 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220033A	3/5/2007	AHTD	Drew	35	001873, 020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	504,033.5742
Easting (M)	425,374.1990
Elevation (M)*	62.149
Northing (SFT)	1,653,650.1514
Easting (SFT)	1,395,581.8512
Elevation (SFT)*	203.899

Convergence Angle	0	9	10.8935197
Scale Factor			0.999946463
Elevation Adjust. Factor			0.9999902470
Combined Adjust. Factor			0.9999367105

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	15.6209400
Longitude	91	43	35.7179088
Ellipsoid Height (M):	36.537		
Geoid Height (M):	-25.652		

Location Description

To reach the station from the junction of highways 278 and 35 on the east side of Monticello go east on hwy-35 for 2.50 miles to the station on the left. 55.0 feet east of a gravel drive, 42.0 feet north of the center of hwy-35 and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "220033A 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fire hydrant	323	2.99	9.8
MK # 2	Water valve	38	2.74	9.0
MK # 3				

AZ Mark Station	220033
Geodetic Azimuth	273 08 08
Grid Azimuth	272 58 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220034	1/24/2017	AHTD	DREW	277	020589

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	514,086.3334	0.0040
Easting (M)	447,754.9017	0.0040
Elevation (M)*	46.558	
Northing (SFT)	1,686,631.5788	
Easting (SFT)	1,469,009.2067	
Elevation (SFT)*	152.750	

Convergence Angle	0	17	17.8878465	
Scale Factor			0.999935993	
Elevation Adjust. Factor			0.9999926936	
Combined Adjust. Factor			0.9999286870	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	41	39.1223508	
Longitude	91	29	5.6045796	
Ellipsoid Height (M):			20.519	0.0080
Geoid Height (M):			-26.051	0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 277 SOUTH, IN TILLAR, GO SOUTH ON HIGHWAY 277 FOR 2.45 MILES TO THE MARK ON THE RIGHT, 48.0' NORTH OF THE CENTERLINE OF THE HIGHWAY, WEST 31.0' OF THE CENTERLINE OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1//2" CAP STAMPED "220034 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE W/GUY	59	23.56	77.3
MK # 2	WEST END 24" CMP	97	4.18	13.7
MK # 3	SOUTH END OF DELTA PLASTIC SIGN	340	6.00	19.7

AZ Mark Station	220034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARPB
Ref Mon # 3	MSGN

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS/ARDOT BM J 352 IN APRIL 2018 BY S5111 FOR JOB #020678.
**********STATIC GPS DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARCM & ARLR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220034A	1/24/2017	AHTD	DREW	277	020589

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	514,065.5962	0.0040
Easting (M)	447,255.5564	0.0040
Elevation (M)*	46.401	
Northing (SFT)	1,686,563.5435	
Easting (SFT)	1,467,370.9380	
Elevation (SFT)*	152.235	

Convergence Angle	0	17	7.0331917	
Scale Factor	0.999936010			
Elevation Adjust. Factor	0.9999927182			
Combined Adjust. Factor	0.9999287286			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	41	38.5303848	
Longitude	91	29	24.9986040	
Ellipsoid Height (M):	20.371			0.0080
Geoid Height (M):	-26.042			0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 277 SOUTH, IN TILLAR, GO SOUTH ON HIGHWAY 277 FOR 2.75 MILES TO THE MARK ON THE RIGHT, 39.7' NORTH OF THE CENTERLINE OF THE HIGHWAY, THE MARK IS A STANDARD 2 1//2" CAP STAMPED "220034A 2017" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF HEADWALL	228	8.44	27.7
MK # 2				
MK # 3				

AZ Mark Station	220034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARPB
Ref Mon # 3	MSGN

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS/ARDOT BM J 352 IN APRIL 2018 BY S5111 FOR JOB #020678.
**********STATIC GPS DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARCM & ARLR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220035	9/13/2017	AHTD	DREW	83s	020475

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	504,214.4948	0.0020
Easting (M)	417,171.5061	0.0020
Elevation (M)*	66.705	

Northing (SFT)	1,654,243.7217	
Easting (SFT)	1,368,670.1829	
Elevation (SFT)*	218.849	

Convergence Angle	0	6	12.8142828
Scale Factor	0.999946230		
Elevation Adjust. Factor	0.9999895319		
Combined Adjust. Factor	0.9999357624		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	36	22.0895892
Longitude	91	48	53.8922880
Ellipsoid Height (M):	40.971		
Geoid Height (M):	-25.733		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 83s AND STATE HIGHWAY 425, SOUTH OF MONTICELLO, GO SOUTH ON HIGHWAY 83s 1.1 MILES TO THE MARK ON THE LEFT, EAST 22' OF THE CENTERLINE OF THE HIGHWAY AND 37' NORTH OF THE CENTERLINE OF THE DRIVE TO THE SCHOOL. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220035" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	94	25.97	85.2
MK # 2	NORTH END 24" CONC CULVERT	80	9.97	32.7
MK # 3				

AZ Mark Station	220035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARPB, MSGN

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's C 351 & D 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS ON GPS POINTS WERE USED AS CONSTRAINTS IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220035A	9/13/2017	AHTD	DREW	COGIN D	020475

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	504,770.1396	0.0020
Easting (M)	417,153.2801	0.0020
Elevation (M)*	70.055	

Northing (SFT)	1,656,066.6997	
Easting (SFT)	1,368,610.3865	
Elevation (SFT)*	229.837	

Convergence Angle	0	6	12.4403562
Scale Factor			0.999945585
Elevation Adjust. Factor			0.9999890063
Combined Adjust. Factor			0.9999345919

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	36	40.1262696
Longitude	91	48	54.5603832
Ellipsoid Height (M):	44.321		
Geoid Height (M):	-25.732		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 425, SOUTH OF MONTICELLO, GO SOUTH ON HIGHWAY 15 0.9 MILES TO SCOGIN DRIVE AND TURN LEFT (SOUTH) AND GO 0.15 MILES TO THE MARK ON THE RIGHT, WEST 53.4' OF THE CENTERLINE OF THE ROAD AND 74' SOUTH OF THE CENTERLINE OF THE DRIVE TO THE HOSPTIAL. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220035A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/2 GUYS	200	22.65	74.3
MK # 2	EMERG SIREN	230	31.85	104.5
MK # 3				

AZ Mark Station	220035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARPB, MSGN

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FOR JOB #020475 IN SEPT. 2017 BETWEEN NGS BM's C 351 & D 351 WHICH WERE MONUMENTED AND TIED BY S5111 IN 2017. **NOTE: LEVELED ELEVATIONS ON GPS POINTS WERE USED AS CONSTRAINTS IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220036	12/12/2017	ARDOT	DREW	293	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	514,056.2504	0.0010
Easting (M)	440,037.4216	0.0010
Elevation (M)*	55.583	
Northing (SFT)	1,686,532.8815	
Easting (SFT)	1,443,689.4407	
Elevation (SFT)*	182.360	

Convergence Angle	0	14	30.1583340
Scale Factor	0.999935988		
Elevation Adjust. Factor	0.9999912772		
Combined Adjust. Factor	0.9999272658		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	41	39.3045216
Longitude	91	34	5.2870944
Ellipsoid Height (M):	29.687		0.0030
Geoid Height (M):	-25.916		0.0030

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 293, SOUTH OF SELMA. TRAVEL NORTH ALONG HIGHWAY 293, 1.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 15 FEET WEST OF THE CENTERLINE OF HIGHWAY 293, AND 24 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220036 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSS TIE GATE POST	270	7.62	25.0
MK # 2	POWER POLE	150	37.80	124.0
MK # 3	POWER POLE	17	55.17	181.0

AZ Mark Station	220036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS JEFFREY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220036A	12/12/2017	ARDOT	DREW	293	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	513,343.0967	0.0010
Easting (M)	440,035.5417	0.0010
Elevation (M)*	55.523	
Northing (SFT)	1,684,193.1431	
Easting (SFT)	1,443,683.2731	
Elevation (SFT)*	182.163	

Convergence Angle	0	14	30.0520991
Scale Factor			0.999936656
Elevation Adjust. Factor			0.9999912867
Combined Adjust. Factor			0.9999279432

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	41	16.1568564	
Longitude	91	34	5.4769044	
Ellipsoid Height (M):			29.626	0.0040
Geoid Height (M):			-25.915	0.0040

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 293, SOUTH OF SELMA. TRAVEL NORTH ALONG HIGHWAY 293, 0.7 MILES TO THE STATION ON THE LEFT. THE STATION IS 15 FEET WEST OF THE CENTERLINE OF HIGHWAY 293, AND 25 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220036A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSS TIE POST	269	7.92	26.0
MK # 2	POWER POLE	97	17.98	59.0
MK # 3	NORTH END OF PLASTIC CULVERT	187	59.44	195.0

AZ Mark Station	220036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS JEFFREY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220037	12/12/2017	ARDOT	DREW	277	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	512,582.3595	0.0010
Easting (M)	443,888.0057	0.0010
Elevation (M)*	48.045	

Northing (SFT)	1,681,697.2911	
Easting (SFT)	1,456,322.5654	
Elevation (SFT)*	157.628	

Convergence Angle	0	15	53.6962384
Scale Factor	0.999937399		
Elevation Adjust. Factor	0.9999924602		
Combined Adjust. Factor	0.9999298597		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	40	50.9116368	
Longitude	91	31	36.0298236	
Ellipsoid Height (M):	22.087			0.0030
Geoid Height (M):	-25.981			0.0030

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 22 FEET NORTH OF THE CENTERLINE OF HIGHWAY 277, AND 22 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220037 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION VALVE	79	24.69	81.0
MK # 2	POWER POLE	232	43.59	143.0
MK # 3	POWER POLE	129	73.15	240.0

AZ Mark Station	220037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS E 352.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220037A	12/12/2017	ARDOT	DREW	277	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	512,576.9418	0.0010
Easting (M)	443,391.4926	0.0010
Elevation (M)*	47.497	

Northing (SFT)	1,681,679.5166	
Easting (SFT)	1,454,693.5886	
Elevation (SFT)*	155.831	

Convergence Angle	0	15	42.9065112
Scale Factor	0.999937402		
Elevation Adjust. Factor	0.9999925462		
Combined Adjust. Factor	0.9999299487		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	40	50.8098828
Longitude	91	31	55.3078416
Ellipsoid Height (M):	21.548		0.0030
Geoid Height (M):	-25.972		0.0030

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 17 FEET NORTH OF THE CENTERLINE OF HIGHWAY 277, AND 21 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220037A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	163	17.68	58.0
MK # 2	UTILITY MARKER (PHONE)	200	18.29	60.0
MK # 3	WEST END OF NORTH HEADWALL	90	26.21	86.0

AZ Mark Station	220037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS D 352.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220038	12/12/2017	ARDOT	DREW	NA	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	511,048.0011	0.0010
Easting (M)	445,956.9382	0.0010
Elevation (M)*	47.485	
Northing (SFT)	1,676,663.3169	
Easting (SFT)	1,463,110.3881	
Elevation (SFT)*	155.792	

Convergence Angle	0	16	38.4925202
Scale Factor	0.999938918		
Elevation Adjust. Factor	0.9999925480		
Combined Adjust. Factor	0.9999314665		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	40	0.7908888
Longitude	91	30	15.9922548
Ellipsoid Height (M):	21.483	0.0030	
Geoid Height (M):	-26.020	0.0030	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALOND GRAVEL ROAD 0.4 MILESCONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERY ALONG GRAVEL ROAD 0.3 MILES TO THE STATION . THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALOND GRAVEL ROAD 0.4 MILESCONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERY ALONG GRAVEL ROAD 0.3 MILES TO THE STATION . THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	101	65.23	214.0
MK # 2	POWER POLE	352	76.20	250.0
MK # 3				

AZ Mark Station	220038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS F 352.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220038A	12/12/2017	ARDOT	DREW	NA	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	511,438.5895	0.0010
Easting (M)	445,979.2508	0.0010
Elevation (M)*	46.898	

Northing (SFT)	1,677,944.7724	
Easting (SFT)	1,463,183.5920	
Elevation (SFT)*	153.864	

Convergence Angle	0	16	39.0183935
Scale Factor	0.999938528		
Elevation Adjust. Factor	0.9999926403		
Combined Adjust. Factor	0.9999311687		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	40	13.4652864	
Longitude	91	30	15.0526764	
Ellipsoid Height (M):	20.898			0.0030
Geoid Height (M):	-26.020			0.0030

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 277 AND STATE HIGHWAY 278, WEST OF TILLAR. TRAVEL EAST ALONG HIGHWAY 277, 1.8 MILES TO A GATED GRAVEL ROAD LEADING SOUTH CONTINUE SOUTH ALOND GRAVEL ROAD 0.4 MILESCONTINUE EASTERLY ALONG GRAVEL ROAD 0.08 MILES CONTINUE SOUTHERY ALONG GRAVEL ROAD 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220038A 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	268	2.44	8.0
MK # 2				
MK # 3				

AZ Mark Station	220038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS F 352.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220039	12/13/2017	ARDOT	DREW	NA	020678

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	511,289.8024	0.0010
Easting (M)	449,677.7108	0.0010
Elevation (M)*	46.010	
Northing (SFT)	1,677,456.6267	
Easting (SFT)	1,475,317.6228	
Elevation (SFT)*	150.951	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	40	8.0310756	
Longitude	91	27	51.5085696	
Ellipsoid Height (M):	19.949			0.0030
Geoid Height (M):	-26.091			0.0030

Convergence Angle	0	17	59.3586932
Scale Factor	0.999938695		
Elevation Adjust. Factor	0.9999927796		
Combined Adjust. Factor	0.9999314751		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE INTERSECTION OF U.S. HWY 65 AND STATE HIGHWAY 1 IN McGEHEE TRAVEL WEST ALONG STATE HIGHWAY 1 (EAST ASH STREET) 0.5 MILES TO NORTH FIRST STREET, TURN LEFT AND CONTIUE SOUTH ALONG NORTH FIRST STREET 0.3 MILES TO STATE HIGHWAY 278, TURN RIGHT AND CONTINUE WEST ALONG STATE HIGHWAY 278 2.7 MILES TO BAYOU BARTHOLOMEW , TURN RIGHT ONTO FARM ROAD JUST BEFORE BIDGE, TRAVEL NORTH BETWEEN FARM BUILDINGS 0.5 MILES TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.2 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.9 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.2 MILES CROSSING LEVEE, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 6 FEET NORTH OF A IRRIGATION WELL. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220039 2017" SET ON TOP OF A 5/8" INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRRIGATION WELL	200	1.83	6.0
MK # 2				
MK # 3				

AZ Mark Station	220039A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS R 352.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220039A	12/13/2017	ARDOT	DREW	NA	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	511,713.2069	0.0010
Easting (M)	450,176.1888	0.0010
Elevation (M)*	46.404	
Northing (SFT)	1,678,845.7463	
Easting (SFT)	1,476,953.0461	
Elevation (SFT)*	152.245	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	40	21.6890184	
Longitude	91	27	32.0711076	
Ellipsoid Height (M):	20.333			0.0030
Geoid Height (M):	-26.100			0.0030

Convergence Angle	0	18	10.2376597
Scale Factor	0.999938278		
Elevation Adjust. Factor	0.9999927177		
Combined Adjust. Factor	0.9999309962		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE INTERSECTION OF U.S. HWY 65 AND STATE HIGHWAY 1 IN McGEHEE TRAVEL WEST ALONG STATE HIGHWAY 1 (EAST ASH STREET) 0.5 MILES TO NORTH FIRST STREET, TURN LEFT AND CONTIUE SOUTH ALONG NORTH FIRST STREET 0.3 MILES TO STATE HIGHWAY 278, TURN RIGHT AND CONTINUE WEST ALONG STATE HIGHWAY 278 2.7 MILES TO BAYOU BARTHOLOMEW , TURN RIGHT ONTO FARM ROAD JUST BEFORE BIDGE, TRAVEL NORTH BETWEEN FARM BUILDINGS 0.5 MILES TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.2 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.3 MILES, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 0.9 MILES, TURN LEFT AND CONTINUE WEST ALONG FARM ROAD 0.2 MILES CROSSING LEVEE, TURN RIGHT AND CONTINUE NORTH ALONG FARM ROAD 1.5 MILES, TURN RIGHT AND CONTINUE EAST 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9 FEET NORTH OF A IRRIGATION WELL. THE STATION MARK IS A STANDARD 2.5 INCH ALUMINUM CAP STAMPED "220039A 2017" SET ON TOP OF A 5/8"INCH REBAR 4 FOOT LONG AND DRIVEN BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION WELL	162	2.74	9.0
MK # 2	POWER POLE	90	9.14	30.0
MK # 3	IRRIGATION WELL	228	11.28	37.0

AZ Mark Station	220039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH/APRIL 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS R 352.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220040	12/18/2017	AR DOT	DREW	CR 75	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	512,121.3594	0.0010
Easting (M)	435,804.9739	0.0010
Elevation (M)*	51.130	

Northing (SFT)	1,680,184.8266	
Easting (SFT)	1,429,803.4852	
Elevation (SFT)*	167.749	

Convergence Angle	0	12	58.0142087
Scale Factor	0.999937813		
Elevation Adjust. Factor	0.9999919761		
Combined Adjust. Factor	0.9999297896		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	40	37.0495920
Longitude	91	36	49.9211100
Ellipsoid Height (M):	25.302		0.0030
Geoid Height (M):	-25.852		0.0030

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY			
MK # 2				
MK # 3				

AZ Mark Station	220040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS V 351.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220040A	12/18/2017	ARDOT	DREW	CR 75	020678

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	512,471.2078	0.0010
Easting (M)	435,990.9411	0.0010
Elevation (M)*	52.482	

Northing (SFT)	1,681,332.6209	
Easting (SFT)	1,430,413.6126	
Elevation (SFT)*	172.184	

Convergence Angle	0	13	2.0839147
Scale Factor			0.999937474
Elevation Adjust. Factor			0.9999917640
Combined Adjust. Factor			0.9999292385

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	33	40	48.3823560
Longitude	91	36	42.6497616
Ellipsoid Height (M):			26.655 0.0030
Geoid Height (M):			-25.855 0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278 AND STATE HIGHWAY 35S, WEST OF SELMA, GO EAST ON HIGHWAY 278 9.0 MILES TO COUNTY ROAD 75 (N 16th SECTION ROAD) AND TURN LEFT (NORTH) AND GO 1.1 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 15.5' OF THE C/L OF THE COUNTY ROAD AND NORTHWEST 10.0' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP STAMPED "2017 220040" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CMP	211	3.72	12.2
MK # 2	POWER POLE			
MK # 3				

AZ Mark Station	220040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM,ARPB,MSGN

Comments

ELEV. ESTABLISHED BY S5111 IN MARCH 2018 USING DIGITAL LEVELS FROM A NEWLY ESTABLISHED 2ND ORDER NGS BM LINE ALONG HWY. 278. THE BM USED WAS V 351.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220041	1/12/2021	ARDOT	DREW	SR-83	02X147

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	510,281.5040	0.0030
Easting (M)	420,139.8643	0.0030
Elevation (M)*		
Northing (SFT)	1,674,148.5677	
Easting (SFT)	1,378,408.8715	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	39	38.8284732	
Longitude	91	46	58.2464424	
Ellipsoid Height (M):	54.177			0.0070
Geoid Height (M):	-25.748			0.0070

Convergence Angle	0	7	17.5401856
Scale Factor	0.999939602		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

220041 TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.4 MILES TO STATION ON LEFT. 37.3' WEST OF C/L SR-83. 14.7' WEST OF NORTH END OF 18" CUS. 11.8' SOUTH OF A DRIVWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "220041 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	5X5 CONC MONUMENT	195	15.55	51.0
MK # 2				
MK # 3				

AZ Mark Station	220041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARPB, MSGN

Comments

220041 TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.4 MILES TO STATION ON LEFT. 37.3' WEST OF C/L SR-83. 14.7' WEST OF NORTH END OF 18" CUS. 11.8' SOUTH OF A DRIVWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "220041 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
220041A	1/12/2021	ARDOT	DREW	SR-83	02X147

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	509,874.6320	0.0030
Easting (M)	420,150.3825	0.0030
Elevation (M)*		
Northing (SFT)	1,672,813.6885	
Easting (SFT)	1,378,443.3799	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	39	25.6211676	
Longitude	91	46	57.8716824	
Ellipsoid Height (M):	52.644			0.0070
Geoid Height (M):	-25.748			0.0070

Convergence Angle	0	7	17.7499353
Scale Factor	0.999940019		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

220041A TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.1 MILES TO STATION ON RIGHT. 15.4' EAST OF C/L SR-83. 14.7' 53' NORTH OF A DRIVWAY ACROSS THE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "220041A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SEWER MH	310	31.09	102.0
MK # 2				
MK # 3				

AZ Mark Station	220041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	ARPB, MSGN

Comments

220041A TO REACH THE STATION MARK FROM THE JCT OF SR-35 & SR-83 IN MONTICELLO, GO NORTH ON SR-83 2.1 MILES TO STATION ON RIGHT. 15.4' EAST OF C/L SR-83. 14.7' 53' NORTH OF A DRIVWAY ACROSS THE ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "220041A 2021" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
22FEL OFF	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	236,894.0995	
Easting (M)	290,743.7258	
Elevation (M)*	310.927	
Northing (SFT)	777,210.0581	
Easting (SFT)	953,881.7071	
Elevation (SFT)*	1,020.100	

Convergence Angle	0	42	33.3477186
Scale Factor	1.000053326		
Elevation Adjust. Factor	0.9999512078		
Combined Adjust. Factor	1.0000045312		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	27	44.7282468
Longitude	93	13	7.9559112
Ellipsoid Height (M):	281.738		
Geoid Height (M):	-29.189		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230001	5/7/1992	AHTD	FAULKNER	65	R80064, 012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	104,210.3358	0.0020
Easting (M)	365,029.8602	0.0020
Elevation (M)*	206.741	
Northing (SFT)	341,896.7434	
Easting (SFT)	1,197,602.1330	
Elevation (SFT)*	678.281	

Convergence Angle	0	13	25.1935273
Scale Factor	0.999950694		
Elevation Adjust. Factor	0.9999675567		
Combined Adjust. Factor	0.9999182523		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	16	19.3843092
Longitude	92	23	3.7251276
Ellipsoid Height:	178.220		
Grid Northing (Meters)	104,210.8661		
Grid Easting (Meters)	365,030.0830		

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:	Geoid 12A		
Latitude	35	16	19.3670724
Longitude	92	23	3.7338612
Ellipsoid Height (M):	178.729		0.0060
Geoid Height (M):	-27.988		0.0060

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 0.65 MILES TO A SIDE ROAD ON THE RIGHT CALLED SHORT CUT ROAD, TURN RIGHT AND GO 0.15 MILES TO STATION ON RIGHT. THE STATION IS 25 FEET SOUTH OF THE CENTERLINE OF THE CO.RD. AND 2.0 FEET NORTH OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	32	20.90	68.6
MK # 2	PUNCH POINT IN TOP OF STEEL POST	349	14.89	48.8
MK # 3	NBC IN 8" CEDAR	310	16.71	54.8

AZ Mark Station	92230001A AZ. MK.
Geodetic Azimuth	249 11 21.63004
Grid Azimuth	249 24 46.79725

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC)BENNETT
Ref Mon # 2	ARBT, (SC)CANTPORT
Ref Mon # 3	P777, (SC)NONE

Comments

OLD PN = 92230001 S5112
RE-OBSERVED IN 2015 TO UPDATE TO NAD 83 (2011). NEW GPS DERIVED ELEV. IS BASED ON STATIC GPS CONSTRAINTS FROM NGS 2ND ORDER BM's Y 68 & Q 68 AND FROM CORS ARLR & ARBT.
**********Previous three wire elevation from job R80064 is206.755m. There were no notes available.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230001A	5/7/1992	AHTD	FAULKNER	65	R80064, 012227, 080505

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	104,119.4964	0.0030
Easting (M)	364,788.0411	0.0030
Elevation (M)*	202.209	
Northing (SFT)	341,598.7144	
Easting (SFT)	1,196,808.7648	
Elevation (SFT)*	663.414	

Convergence Angle	0	13	30.7531761
Scale Factor			0.999950772
Elevation Adjust. Factor			0.9999682678
Combined Adjust. Factor			0.9999190414

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	16	16.4060328
Longitude	92	23	13.2796788
Ellipsoid Height:			173.665
Grid Northing (Meters)			104,120.0321
Grid Easting (Meters)			364,788.2580

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	16	16.3886232	
Longitude	92	23	13.2881784	
Ellipsoid Height (M):			174.197	0.0060
Geoid Height (M):			-27.993	0.0060

Location Description

FROM THE JCT OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 0.55 MILES TO THE STATION ON RIGHT. THE STATION IS 50 FEET EAST OF THE CENTERLINE OF HWY. 65, 130 FEET SOUTH OF A GRAVEL DRIVEWAY AND 2.0 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	173	19.48	63.9
MK # 2	NBC IN 12" RED OAK	257	31.64	103.8
MK # 3	NBC IN TOP OF FENCE POST	296	32.78	107.5

AZ Mark Station	92230001
Geodetic Azimuth	69 11 16.07026
Grid Azimuth	69 24 46.79725

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC)BENNETT
Ref Mon # 2	ARBT, (SC)CANTPORT
Ref Mon # 3	NONE

Comments

OLD PN = 92230001A S5112
RE-OBSERVED IN 2015 TO UPDATE TO NAD 83 (2011). NEW GPS DERIVED ELEV. IS BASED ON STATIC GPS CONSTRAINTS FROM NGS 2ND ORDER BM's Y 68 & Q 68 AND FROM CORS ARLR & ARB
**********Previous three wire elevation from job R80064 is202.229m. There were no notes available. Job 080505 three wire based on NGS benchmarks 14 B and T 208.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230002	5/7/1992	AHTD	FAULKNER	65	R80064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	106,494.9451
Easting (M)	363,483.5890
Elevation (M)*	158.298
Northing (SFT)	349,392.1657
Easting (SFT)	1,192,529.0749
Elevation (SFT)*	519.349

Convergence Angle	0	14	1.0107840
Scale Factor			0.999948817
Elevation Adjust. Factor			0.9999751585
Combined Adjust. Factor			0.9999239768

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	17	33.3016440
Longitude	92	24	5.2862076
Ellipsoid Height (M):	129.735		
Geoid Height (M):	-28.563		

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 2.48 MILES TO THE STATION ON THE RIGHT. THE STATION IS 41 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 217 FEET SOUTH OF A PRIVATE DRIVE AND 2.0 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	129	5.90	19.3
MK # 2	NBC IN 18" CEDAR	130	39.15	128.5
MK # 3	NBC IN COMBINATION POLE W/ARM	82	38.22	125.4

AZ Mark Station	92230002A AZ. MK.
Geodetic Azimuth	335 00 47.35182
Grid Azimuth	335 14 48.35305

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENNETT
Ref Mon # 2	CANTPORT
Ref Mon # 3	NONE

Comments

OLD PN = 92230002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230002A	5/7/1992	AHTD	FAULKNER	65	R80064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	106,745.8641	
Easting (M)	363,367.8960	
Elevation (M)*	149.267	
Northing (SFT)	350,215.3891	
Easting (SFT)	1,192,149.5055	
Elevation (SFT)*	489.720	

Convergence Angle	0	14	3.6989226
Scale Factor			0.999948619
Elevation Adjust. Factor			0.9999765757
Combined Adjust. Factor			0.9999251959

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	17	41.4285396
Longitude	92	24	9.9058032
Ellipsoid Height (M):	120.710		
Geoid Height (M):	-28.565		

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 2.55 MILES TO THE STATION ON THE RIGHT. THE STATION IS 32 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 204 FEET SOUTH OF THE ENTRANCE TO CONWAY ASPHALT AND 2.0 FEET WEST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	33	11.78	38.7
MK # 2	NBC IN 14" PINE	147	34.17	112.1
MK # 3	NBC IN TOP OF FENCE POST	266	22.86	75.0

AZ Mark Station	92230002
Geodetic Azimuth	155 00 44.64461
Grid Azimuth	155 14 48.35305

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENNETT
Ref Mon # 2	CANTPORT
Ref Mon # 3	NONE

Comments

OLD PN = 92230002A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230003	5/7/1992	AHTD	FAULKNER	65	R80064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	108,174.1661
Easting (M)	363,574.5340
Elevation (M)*	159.325
Northing (SFT)	354,901.4099
Easting (SFT)	1,192,827.4503
Elevation (SFT)*	522.719
Convergence Angle	0 13 59.0735731
Scale Factor	0.999947515
Elevation Adjust. Factor	0.9999749973
Combined Adjust. Factor	0.9999225136

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 18 27.8037252
Longitude	92 24 1.9570896
Ellipsoid Height (M):	130.761
Geoid Height (M):	-28.564

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 3.55 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 269 FEET SOUTH OF ENTRANCE NO. 1 TO THE OZARK TRADE CENTER AND 2.0 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 18" PINE	176	41.38	135.8
MK # 2	NBC IN 8" PINE	187	33.29	109.2
MK # 3	NBC IN POWER POLE	305	40.47	132.8

AZ Mark Station	92230003A AZ. MK.
Geodetic Azimuth	309 37 29.96883
Grid Azimuth	309 51 29.02056

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENNETT
Ref Mon # 2	CANTPORT
Ref Mon # 3	NONE

Comments

OLD PN = 92230003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230003A	5/7/1992	AHTD	FAULKNER	65	R80064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	108,408.2491
Easting (M)	363,294.1570
Elevation (M)*	162.160
Northing (SFT)	355,669.3973
Easting (SFT)	1,191,907.5801
Elevation (SFT)*	532.020
Convergence Angle	0 14 5.5541897
Scale Factor	0.999947340
Elevation Adjust. Factor	0.9999745525
Combined Adjust. Factor	0.9999218938

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 18 35.3624688
Longitude	92 24 13.0941000
Ellipsoid Height (M):	133.603
Geoid Height (M):	-28.569

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 25 NORTH OF GREENBRIER, GO NORTH ON HWY. 65 3.76 MILES TO THE STATION ON RIGHT. THE STATION IS 43 FEET RIGHT OF THE CENTERLINE OF HWY. 65, 289 FEET NORTHWEST OF ENTRANCE NO. 2 TO THE OZARK TRADE CENTER AND 2.0 FEET WEST OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 18" PINE	172	33.06	108.5
MK # 2	NBC IN 6" REDBUD	224	23.96	78.6
MK # 3	NBC IN LIGHT POLE	240	34.12	111.9

AZ Mark Station	92230003
Geodetic Azimuth	129 37 23.44460
Grid Azimuth	129 51 29.02056

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENNETT
Ref Mon # 2	CANTPORT
Ref Mon # 3	NONE

Comments

OLD PN = 92230003A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230004	5/7/1992	AHTD	FAULKNER	65	R80065,R80064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	109,708.2231	
Easting (M)	362,718.2540	
Elevation (M)*	169.301	
Northing (SFT)	359,934.3953	
Easting (SFT)	1,190,018.1383	
Elevation (SFT)*	555.448	

Convergence Angle	0	14	18.9452186
Scale Factor	0.999946389		
Elevation Adjust. Factor	0.9999734319		
Combined Adjust. Factor	0.9999198223		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	17.4688356
Longitude	92	24	36.1067292
Ellipsoid Height (M):	140.723		
Geoid Height (M):	-28.578		

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 25 JUST NORTH OF THE SMALL VILLAGE OF GREENBRIER, GO NORTH ON HWY. 65 FOR 7.69 KM (4.78 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.75 METERS WEST OF THE CENTER OF HWY. 65, 38.4 METERS NORTHWEST OF A DRIVEWAY AND 0.61 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92230004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	221	12.65	41.5
MK # 2	NBC IN COMBINATION POLE	350	37.66	123.6
MK # 3	NBC IN 8" PERSIMMON TREE	31	41.11	134.9

AZ Mark Station	92230004A
Geodetic Azimuth	201 39 13.33689
Grid Azimuth	201 53 32.29071

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENNETT 1940
Ref Mon # 2	MAY 1940
Ref Mon # 3	NONE

Comments

THE ELEVATION ARRIVED AT BY USING TBM-17 FROM AHTD JOB NO. R80064. OLD PN = 92230004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230004A	5/7/1992	AHTD	FAULKNER	65	R80065,R80064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	109,416.1891	
Easting (M)	362,600.9030	
Elevation (M)*	166.781	
Northing (SFT)	358,976.2804	
Easting (SFT)	1,189,633.1293	
Elevation (SFT)*	547.181	

Convergence Angle	0	14	21.6207652
Scale Factor	0.999946600		
Elevation Adjust. Factor	0.9999738273		
Combined Adjust. Factor	0.9999204287		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	7.9765824
Longitude	92	24	40.7046852
Ellipsoid Height (M):	138.202		
Geoid Height (M):	-28.579		

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 25 JUST NORTH OF THE SMALL VILLAGE OF GREENBRIER, GO NORTH ON HWY. 65 FOR 7.37 KM (4.58 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.50 METERS WEST OF THE CENTER OF HWY. 65, 68.88 METERS SOUTH OF "ZION GROVE LANE" AND 0.61 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92230004A AZ. MK." SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN CONCRETE SIGN POST	14	61.17	200.7
MK # 2	NBC IN LIGHT POLE	328	25.76	84.5
MK # 3	NBC IN POWER POLE	30	70.82	232.3

AZ Mark Station	92230004
Geodetic Azimuth	21 39 10.67859
Grid Azimuth	21 53 32.29071

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENNETT 1940
Ref Mon # 2	MAY 1940
Ref Mon # 3	NONE

Comments

THE ELEVATION ARRIVED AT BY USING TBM-17 FROM AHTD JOB NO. R80064. OLD PN = 92230004A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230005	11/23/1994	AHTD	FAULKNER	65	R80065

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	113,714.5471	
Easting (M)	362,384.8040	
Elevation (M)*	202.336	
Northing (SFT)	373,078.4766	
Easting (SFT)	1,188,924.1445	
Elevation (SFT)*	663.831	

Convergence Angle	0	14	27.0155651
Scale Factor	0.999943715		
Elevation Adjust. Factor	0.9999682479		
Combined Adjust. Factor	0.9999119647		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	21	27.4267044
Longitude	92	24	49.9757076
Ellipsoid Height (M):	173.756		
Geoid Height (M):	-28.580		

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF DAMASCUS, GO SOUTH ON HWY. 65 FOR 1.336 KM (0.83 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 7.80 METERS WEST OF THE CENTER OF HWY. 65, 8.70 METERS SOUTH OF A GRAVEL DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "230005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	270	5.60	18.4
MK # 2	SOUTHEAST CORNER OF BUILDING	314	15.25	50.0
MK # 3	COMBINATION POLE	190	24.46	80.2

AZ Mark Station	230005A
Geodetic Azimuth	13 25 25.05308
Grid Azimuth	13 39 52.05831

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENNETT 1940
Ref Mon # 2	MAY 1940
Ref Mon # 3	NONE

Comments

THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. C-209.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230005A	11/23/1994	AHTD	FAULKNER	65	R80065

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	114,399.2461	
Easting (M)	362,551.2660	
Elevation (M)*	206.298	
Northing (SFT)	375,324.8599	
Easting (SFT)	1,189,470.2785	
Elevation (SFT)*	676.829	

Convergence Angle	0	14	23.2447770
Scale Factor			0.999943297
Elevation Adjust. Factor			0.9999676262
Combined Adjust. Factor			0.9999109250

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	21	49.6674432
Longitude	92	24	43.4955672
Ellipsoid Height (M):	177.721		
Geoid Height (M):	-28.577		

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF DAMASCUS, GO SOUTH ON HWY. 65 FOR 0.628 KM (0.39 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 22.10 METERS NORTH OF A GRAVEL DRIVEWAY, 14.35 METERS WEST OF THE CENTER OF HWY. 65 AND 0.50 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "230005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CEDAR FENCE POST	350	1.25	4.1
MK # 2	CONCRETE RIGHT-OF-WAY MARKER	207	14.37	47.1
MK # 3	18" METAL PIPE	155	4.72	15.5

AZ Mark Station	230005
Geodetic Azimuth	193 25 28.80328
Grid Azimuth	193 39 52.05831

Area Reference Monuments (used for Processing)

Ref Mon # 1	BENNETT 1940
Ref Mon # 2	MAY 1940
Ref Mon # 3	NONE

Comments

THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. C-209.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230006	11/29/1995	AHTD	FAULKNER	25	001657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	107,643.9981	
Easting (M)	367,025.1500	
Elevation (M)*	196.548	
Northing (SFT)	353,162.0171	
Easting (SFT)	1,204,148.3463	
Elevation (SFT)*	644.841	

Convergence Angle	0	12	39.5431922
Scale Factor	0.999947908		
Elevation Adjust. Factor	0.9999691562		
Combined Adjust. Factor	0.9999170658		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	11.0338848
Longitude	92	21	45.2832624
Ellipsoid Height (M):	168.032		
Geoid Height (M):	-28.516		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 310 IN THE SMALL TOWN OF GUY GO SOUTHERLY ON HWY-25 FOR 3.70 KM. (2.30 MI.) TO THE STATION ON THE RIGHT. 12.4 METERS NORTHWEST OF THE CENTER OF HWY-25, 9.40 METERS NORTHEAST OF A GRAVEL DRIVEWAY TO SOME BARNS AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230006 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	218	2.00	6.6
MK # 2	EAST CORNER OF A BARN	312	13.62	44.7
MK # 3	14" (0.35 M) PERSIMMON TREE	354	24.37	80.0

AZ Mark Station	230006A
Geodetic Azimuth	59 11 26.41036
Grid Azimuth	59 24 05.91755

Area Reference Monuments (used for Processing)

Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

ELEVATION BY 3-WIRE NGS Point M 68
*NOTE: REPORTED DESTROYED BY S5112 IN APRIL OF 2015 & REPLACED WITH NEW GPS MONUMENT # 230036

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230006A	11/29/1995	AHTD	FAULKNER	25	001657, 012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	107,913.9686	0.0030
Easting (M)	367,482.3373	0.0030
Elevation (M)*	197.538	
Northing (SFT)	354,047.7453	
Easting (SFT)	1,205,648.3016	
Elevation (SFT)*	648.089	

Convergence Angle	0	12	29.0350066
Scale Factor			0.999947701
Elevation Adjust. Factor			0.9999690008
Combined Adjust. Factor			0.9999167034

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	18	19.8651420
Longitude	92	21	27.2170008
Ellipsoid Height:			169.027
Grid Northing (Meters)			107,914.4781
Grid Easting (Meters)			367,482.5370

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	18	19.8485856
Longitude	92	21	27.2248308
Ellipsoid Height (M):	169.605		0.0060
Geoid Height (M):	-27.920		0.0060

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 310 IN THE SMALL TOWN OF GUY GO SOUTHERLY ON HWY-25 FOR 3.14 KM. (1.95 MI.) TO THE STATION ON THE LEFT. 14.39 METERS SOUTHWEST OF A PAVED DRIVEWAY, 11.53 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 0.76 METERS NORTHWEST OF A WITNESS POST SET IN A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RAIL ROAD TIE FENCE CORNER POST	59	5.87	19.3
MK # 2	POWER POLE	222	5.48	18.0
MK # 3	POWER POLE	323	23.28	76.4

AZ Mark Station	230006
Geodetic Azimuth	239 11 36.85120
Grid Azimuth	239 24 05.91755

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC) MAY 1940
Ref Mon # 2	ARBT, (SC)92230001
Ref Mon # 3	P777, (SC)120009

Comments

ELEVATION BY 3-WIRE NGS Point M 68 *NOTE: IN 2015 S5112 FOUND THAT M 68 HAD BEEN DESTROYED FROM PREVIOUS HWY. WIDENING JOB. *NOTE: FOR JOB # 012227 S5112 YIELDED TO THE ORIGINAL ELEV. THAT WAS RAN FROM M 68 & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230007	11/29/1995	AHTD	FAULKNER	25	001657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	110,103.5761	
Easting (M)	370,625.2900	
Elevation (M)*	209.719	
Northing (SFT)	361,231.4826	
Easting (SFT)	1,215,959.8056	
Elevation (SFT)*	688.053	

Convergence Angle	0	11	16.8040387
Scale Factor	0.999946087		
Elevation Adjust. Factor	0.9999670893		
Combined Adjust. Factor	0.9999131781		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	31.2530700
Longitude	92	19	23.0951244
Ellipsoid Height (M):	181.245		
Geoid Height (M):	-28.474		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 310 IN THE SMALL TOWN OF GUY GO NORTHERLY ON HWY-25 FOR 1.05 KM. (0.65 MI.) TO THE "GUY-PERKINS SCHOOL" ON THE RIGHT AND THE STATION ACROSS THE HIGHWAY ON THE LEFT. 11.45 METERS NORTH OF THE CENTER OF HWY-25 AND 0.51 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A MANHOLE	302	14.20	46.6
MK # 2	CONCRETE RIGHT OF WAY MONUMENT	356	0.70	2.3
MK # 3	GUY POLE	78	7.24	23.8

AZ Mark Station	230007A
Geodetic Azimuth	112 18 14.68644
Grid Azimuth	112 29 31.46018

Area Reference Monuments (used for Processing)

Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230007A	11/29/1995	AHTD	FAULKNER	25	001657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	109,931.9891
Easting (M)	371,039.7000
Elevation (M)*	212.328
Northing (SFT)	360,668.5342
Easting (SFT)	1,217,319.4158
Elevation (SFT)*	696.613

Convergence Angle	0	11	7.2431593
Scale Factor			0.999946207
Elevation Adjust. Factor			0.9999666799
Combined Adjust. Factor			0.9999128887

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	19	25.7289456	
Longitude	92	19	6.6646488	
Ellipsoid Height (M):	183.859			
Geoid Height (M):	-28.469			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 310 IN THE SMALL TOWN OF GUY GO NORTHERLY ON HWY-25 FOR 1.53 KM. (0.95 MI.) TO THE STATION ON THE LEFT. 11.38 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-25, 5.8 METERS SOUTHEAST OF A GUY POLE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230007A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF MANHOLE	328	7.02	23.0
MK # 2	TELEPHONE JUNCTION BOX	294	4.47	14.7
MK # 3	COMBINATION POLE	220	25.44	83.5

AZ Mark Station	230007
Geodetic Azimuth	292 18 24.18666
Grid Azimuth	292 29 31.46018

Area Reference Monuments (used for Processing)

Ref Mon # 1	MAY 1940
Ref Mon # 2	92230001
Ref Mon # 3	120009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230008	11/29/1995	AHTD	FAULKNER	25	001657, 012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,408.5316	0.0030
Easting (M)	377,669.6754	0.0030
Elevation (M)*	230.498	
Northing (SFT)	368,793.6574	
Easting (SFT)	1,239,071.2600	
Elevation (SFT)*	756.226	

Convergence Angle	0	8	34.6321091
Scale Factor			0.999944510
Elevation Adjust. Factor			0.9999638286
Combined Adjust. Factor			0.9999083406

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	20	46.7241108
Longitude	92	14	44.3950188
Ellipsoid Height:			202.089
Grid Northing (Meters)			112,409.0200
Grid Easting (Meters)			377,669.8250

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	20	46.7082492	
Longitude	92	14	44.4008940	
Ellipsoid Height (M):			202.757	0.0060
Geoid Height (M):			-27.750	0.0060

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO SOUTHERLY ON HWY-25 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE LEFT. 12.07 METERS SOUTHEAST OF THE CENTER OF HWY-25 AND 2.0 METERS NORTHWEST OF A WITNESS POST SET BESIDE A COMBINATION POLE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230008 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	250	2.00	6.6
MK # 2	GAS METER	202	15.12	49.6
MK # 3	NONE			

AZ Mark Station	230008A
Geodetic Azimuth	209 57 53.57636
Grid Azimuth	210 06 28.22840

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC) MAY 1940
Ref Mon # 2	ARBT, (SC)92230001
Ref Mon # 3	P777, (SC)120009

Comments

PREVIOUS ELEVATION (756.2091 SURV. FT.) BY 3-WIRE USING NGS Point R 68 *NOTE : IN 2105 S5112 SEARCH FOUND THAT R 68 HAD BEEN DESTROYED FROM PREVIOUS HWY.
WIDENING.
UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM 2ND ORDER NGS BM'S Q 68 & N 208 FOR JOB # 012227 AND CHECKED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230008A	11/29/1995	AHTD	FAULKNER	25	001657, 012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	111,808.9915	0.0030
Easting (M)	377,322.0242	0.0030
Elevation (M)*	222.434	
Northing (SFT)	366,826.6663	
Easting (SFT)	1,237,930.6744	
Elevation (SFT)*	729.769	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	20	27.2250168	
Longitude	92	14	58.1095320	
Ellipsoid Height (M):	194.688			0.0060
Geoid Height (M):	-27.757			0.0060

Convergence Angle	0	8	42.6091536
Scale Factor	0.999944905		
Elevation Adjust. Factor	0.9999650941		
Combined Adjust. Factor	0.9999100010		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-25 & 356 IN QUITMAN GO SOUTHERLY ON HWY-25 FOR 5.95 KM. (3.70 MI.) TO THE STATION ON THE RIGHT. 11.50 METERS NORTHWEST OF THE CENTER OF HWY-25 AND 0.66 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230008A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	20	27.2412420
Longitude	92	14	58.1033724
Ellipsoid Height:	194.027		
Grid Northing (Meters)	111,809.4911		
Grid Easting (Meters)	377,322.1810		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MANHOLE	17	25.60	84.0
MK # 2	TELEPHONE POLE	295	0.75	2.5
MK # 3	WATER VALVE	215	30.50	100.1

AZ Mark Station	230008
Geodetic Azimuth	29 57 45.64636
Grid Azimuth	30 06 28.22840

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, (SC) MAY 1940
Ref Mon # 2	ARBT, (SC)92230001
Ref Mon # 3	P777, (SC)120009

Comments

PREVIOUS ELEVATION (729.7689 SURV. FT.) BY 3-WIRE USING NGS P 208 *NOTE : IN 2105 S5112 SEARCH FOUND THAT P 208 HAD BEEN DESTROYED FROM PREVIOUS HWY. WIDENING. UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM 2ND ORDER NGS BM'S Q 68 & N 208 FOR JOB # 012227 AND CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68. *NOTE: S5112 ALSO RAN THRU P 207 BUT CHECKED 0.09'

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230009	3/11/1998	AHTD	FAULKNER	286	80122, 080676

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	82,484.3829	0.0020
Easting (M)	350,938.1521	0.0020
Elevation (M)*	85.975	
Northing (SFT)	270,617.5129	
Easting (SFT)	1,151,369.5873	
Elevation (SFT)*	282.070	

Convergence Angle	0	18	46.9189725
Scale Factor			0.999975078
Elevation Adjust. Factor			0.9999865079
Combined Adjust. Factor			0.9999615862

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	4	32.2237344
Longitude	92	32	16.6233840
Ellipsoid Height:			58.058
Grid Northing (Meters)			82,484.3941
Grid Easting (Meters)			350,938.1310

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	4	32.2233744
Longitude	92	32	16.6225488
Ellipsoid Height (M):	57.878		0.0080
Geoid Height (M):	-28.096		0.0080

Location Description

THE STATION IS LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF CONWAY IN THE OLD FERRY LANDING PARK (TOAD SUCK LOCK AND DAM) ON THE EAST SIDE OF THE ARKANSAS RIVER IN A GRASS ISLAND IN A PAVED PARKING LOT. THE STATION IS 158.861 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 60, 43.632 METERS SOUTH OF THE CENTER OF A CONCRETE ROAD, 12.48 METERS EAST OF A WITNESS POST AND 9.1 METERS WEST OF THE CENTER OF A PAVED ROAD. THE STATION MARK IS A 50mm CAP STAMPED "AHTD GPS 230009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN WOODEN POST	273	12.61	41.4
MK # 2	LIGHT POLE	66	20.69	67.9
MK # 3	CORNER POST OF CHAIN LINK FENCE	132	18.16	59.6

AZ Mark Station	530010
Geodetic Azimuth	286 12 30.99383
Grid Azimuth	286 31 17.99262

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR (ROCKPORT)
Ref Mon # 2	ARRV (PJTC CAMPUS)
Ref Mon # 3	ARSC (EARNHART HALE)

Comments

SUPERCEDED GEOID HT. WAS -27.949m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230011A	3/11/1998	AHTD	FAULKNER	65B	73, 080122,012119,080496, 08

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	81,724.4790	0.0040
Easting (M)	360,669.2016	0.0040
Elevation (M)*	89.533	

Northing (SFT)	268,124.3949	
Easting (SFT)	1,183,295.5389	
Elevation (SFT)*	293.742	

Convergence Angle	0	15	3.3298176
Scale Factor			0.999976071
Elevation Adjust. Factor			0.9999859496
Combined Adjust. Factor			0.9999620209

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	4	9.1185960
Longitude	92	25	52.3829604
Ellipsoid Height:			61.775
Grid Northing (Meters)			81,724.4761
Grid Easting (Meters)			360,669.1810

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	4	9.1186932	
Longitude	92	25	52.3821468	
Ellipsoid Height (M):			61.579	0.0150
Geoid Height (M):			-27.896	0.0150

Location Description

TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65B, STATE HIGHWAY 60 AND STATE HIGHWAY 365, LOCATED ON THE SOUTH SIDE OF CONWAY, GO NORTH ON US HIGHWAY 65B FOR 0.31 KM (0.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 28.60 METERS WEST-SOUTHWEST OF THE CENTER OF US HIGHWAY 65B, 7.35 METERS EAST-NORTHEAST OF A CHAIN LINK FENCE AND A WITNESS POST AND 7.25 METERS WEST-SOUTHWEST OF THE WEST RAIL. THE STATION MARK IS A 50mm CAP STAMPED "AHTD GPS 230011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROOUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	169	24.40	80.1
MK # 2	POWER POLE	323	28.00	91.9
MK # 3				

AZ Mark Station	230011
Geodetic Azimuth	154 47 24.55323
Grid Azimuth	155 02 27.86051

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

3-Wire Levels were ran by S5105 Using NGS BM "B291" Elevation=91.423 meters NAVD88 Datum. **The Posted Elevations were ran with 3-wire levels by S5103 on 9/06 from NGS BM's B291/D291**
**********OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION NAD 83 (1997) ARE ROCKPORT, PJTC CAMPUS & EARNHART HALE AND THE OLD GEOID HT. WAS -27.753m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230012	3/3/1999	AHTD	FAULKNER	64	001848

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,305.1761	
Easting (M)	387,804.8110	
Elevation (M)*	99.979	
Northing (SFT)	279,872.0653	
Easting (SFT)	1,272,322.9508	
Elevation (SFT)*	328.014	

Convergence Angle	0	4	40.2062521	
Scale Factor	0.999971100			
Elevation Adjust. Factor	0.9999843103			
Combined Adjust. Factor	0.9999554107			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	6	7.8389892	
Longitude	92	8	1.5375012	
Ellipsoid Height (M):	72.553			
Geoid Height (M):	-27.426			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO WEST ON U.S. HIGHWAY 64 FOR 4.16 KM (2.59 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.99 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230012 1999" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	230012A
Geodetic Azimuth	69 17 47.560746
Grid Azimuth	69 22 27.698556

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	AHTD LR1
Ref Mon # 3	EARNHART HALE

Comments

LEVELS TO THE STATION WAS RUN BY CREW S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230012A	3/3/1999	AHTD	FAULKNER	64	3,012154,050263Mobie LiDAI

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,495.6265	
Easting (M)	388,310.8164	
Elevation (M)*	96.058	
Northing (SFT)	280,496.9013	
Easting (SFT)	1,273,983.0701	
Elevation (SFT)*	315.149	

Convergence Angle	0	4	28.5855866
Scale Factor			0.999970850
Elevation Adjust. Factor			0.9999849256
Combined Adjust. Factor			0.9999557761

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	6	14.0405760
Longitude	92	7	41.5688520
Ellipsoid Height:			68.642
Grid Northing (Meters)			85,495.6141
Grid Easting (Meters)			388,310.7760

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	6	14.0409792
Longitude	92	7	41.5672608
Ellipsoid Height (M):	68.544		
Geoid Height (M):	-27.531		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO WEST ON U.S. HIGHWAY 64 FOR 3.62 KM (2.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.421 METERS EAST OF THE CENTER OF THE EAST GRAVEL DRIVE TO A METAL BUILDING, 11.354 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 1.00 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230012A 1999" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	67	21.34	70.0
MK # 2	GUY POLE	105	23.35	76.6
MK # 3	RCP	255	18.25	59.9

AZ Mark Station	230012
Geodetic Azimuth	249 17 59.04369
Grid Azimuth	249 22 27.69856

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	AHTD LR1
Ref Mon # 3	EARNHART HALE

Comments

LEVELS TO THE STATION WAS RUN BY CREW S5103. RE-TIED IN APRIL 2012 BY DIGITAL LEVELS FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. TBM 996 WAS ESTABLISHED FROM NGS L 69 WHICH NO LONGER EXISTS. UPDATED ELEVATION FROM 315.1732' TO 315.1492' IN MAY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230013	4/1/1999	AHTD	FAULKNER	64	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	83,128.6951	
Easting (M)	373,699.1390	
Elevation (M)*	96.070	
Northing (SFT)	272,731.3938	
Easting (SFT)	1,226,044.5919	
Elevation (SFT)*	315.190	

Convergence Angle	0	10	4.1614291
Scale Factor	0.999974059		
Elevation Adjust. Factor	0.9999849237		
Combined Adjust. Factor	0.9999589831		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	56.2306152
Longitude	92	17	18.2580072
Ellipsoid Height (M):	68.516		
Geoid Height (M):	-27.566		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 1.61 KM (1.00 MI) TO STATION ON THE RIGHT. THE STATION IS 20.8 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230013 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	230013A
Geodetic Azimuth	247 02 16.39590
Grid Azimuth	247 12 20.62116

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	EARNHART HALE
Ref Mon # 3	230011

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230013A	4/1/1999	AHTD	FAULKNER	64	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	82,938.5051	
Easting (M)	373,246.5700	
Elevation (M)*	93.167	
Northing (SFT)	272,107.4121	
Easting (SFT)	1,224,559.7884	
Elevation (SFT)*	305.665	

Convergence Angle	0	10	14.5443895
Scale Factor	0.999974322		
Elevation Adjust. Factor	0.9999853793		
Combined Adjust. Factor	0.9999597016		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	50.0155500
Longitude	92	17	36.1012380
Ellipsoid Height (M):	65.629		
Geoid Height (M):	-27.569		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWATY 64 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 26.726 METERS WEST OF A PAVED DRIVE, 19.983 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64, 15.499 METERS EAST OF THE CENTER OF LIBERTY LP AND 1.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230013A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END CMP	62	22.95	75.3
MK # 2	EAST END CMP	218	11.53	37.8
MK # 3	NONE			

AZ Mark Station	230013
Geodetic Azimuth	67 02 06.140685
Grid Azimuth	67 12 20.621158

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	EARNHART HALE
Ref Mon # 3	230011

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230014	4/1/1999	AHTD	FAULKNER	64	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	83,083.9881	
Easting (M)	378,475.2550	
Elevation (M)*	109.071	
Northing (SFT)	272,584.7176	
Easting (SFT)	1,241,714.2324	
Elevation (SFT)*	357.844	

Convergence Angle	0	8	14.4464831
Scale Factor	0.999974103		
Elevation Adjust. Factor	0.9999828835		
Combined Adjust. Factor	0.9999569869		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	55.1926092
Longitude	92	14	9.7116756
Ellipsoid Height (M):	81.587		
Geoid Height (M):	-27.497		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 6.36 KM (3.95 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.45 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 4.81 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "230014 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	230014A
Geodetic Azimuth	268 31 12.86316
Grid Azimuth	268 39 27.38512

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	EARNHART HALE
Ref Mon # 3	230011

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230014A	4/1/1999	AHTD	FAULKNER	64	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	83,071.4581	
Easting (M)	377,940.5280	
Elevation (M)*	109.232	
Northing (SFT)	272,543.6088	
Easting (SFT)	1,239,959.8823	
Elevation (SFT)*	358.372	

Convergence Angle	0	8	26.7289809
Scale Factor	0.999974122		
Elevation Adjust. Factor	0.9999828582		
Combined Adjust. Factor	0.9999569807		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	54.7438980
Longitude	92	14	30.8192820
Ellipsoid Height (M):	81.728		
Geoid Height (M):	-27.503		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) EAST OF VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 5.79 KM (3.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.301 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230014A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CP	90	47.54	156.0
MK # 2	CP	268	31.25	102.5
MK # 3	NONE			

AZ Mark Station	230014
Geodetic Azimuth	88 31 00.731619
Grid Azimuth	88 39 27.385118

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	EARNHART HALE
Ref Mon # 3	230011

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230015	4/1/1999	AHTD	FAULKNER	64	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	83,677.7561	
Easting (M)	382,738.3190	
Elevation (M)*	102.424	
Northing (SFT)	274,532.7715	
Easting (SFT)	1,255,700.6349	
Elevation (SFT)*	336.036	

Convergence Angle	0	6	36.5458242
Scale Factor			0.999973282
Elevation Adjust. Factor			0.9999839266
Combined Adjust. Factor			0.9999572090

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	14.7592428
Longitude	92	11	21.4683252
Ellipsoid Height (M):	74.994		
Geoid Height (M):	-27.455		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 107, LOCATED IN VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.30 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 11.10 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230015 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	255	2.35	7.7
MK # 2	CENTER OF CONCRETE HEADWALL	218	6.90	22.6
MK # 3	WEST END OF RCP	87	11.75	38.5

AZ Mark Station	230015A
Geodetic Azimuth	256 32 16.28672
Grid Azimuth	256 38 52.89991

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	EARNHART HALE
Ref Mon # 3	230011

Comments

ELAVATION ON THIS POINT WAS ESTABLISHED BY 3 WIRE LEVELING FROM TBM 901 BY CREW S5102, ELEVATION ON TBM 901 WAS ESTABLISHED BY CREW S5103.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230015A	4/1/1999	AHTD	FAULKNER	64	080149,050263

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	83,563.3751	
Easting (M)	382,255.9860	
Elevation (M)*	101.877	
Northing (SFT)	274,157.5065	
Easting (SFT)	1,254,118.1807	
Elevation (SFT)*	334.241	

Convergence Angle	0	6	47.6210486
Scale Factor	0.999973438		
Elevation Adjust. Factor	0.9999840124		
Combined Adjust. Factor	0.9999574509		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	11.0170536
Longitude	92	11	40.5012192
Ellipsoid Height (M):	74.443		
Geoid Height (M):	-27.459		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 107, LOCATED IN VILONIA, GO EAST ON U.S. HIGHWAY 64 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 49.065 METERS EAST OF A CONCRETE DRIVE, 10.190 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 1.90 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230015A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF RCP	251	44.68	146.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	230015
Geodetic Azimuth	76 32 05.346271
Grid Azimuth	76 38 52.89991

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	EARNHART HALE
Ref Mon # 3	230011

Comments

Used to process data for photogrammetry on job 050263. Resulted in Northing Error of 0.3' and Easting Error of 0.1'

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230016	3/24/2000	AHTD	FAULKNER	285	008570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	96,717.0203	
Easting (M)	358,418.6473	
Elevation (M)*	95.716	
Northing (SFT)	317,312.4241	
Easting (SFT)	1,175,911.8454	
Elevation (SFT)*	314.028	

Convergence Angle	0	15	56.6156612
Scale Factor			0.999957794
Elevation Adjust. Factor			0.9999849793
Combined Adjust. Factor			0.9999427739

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	12	15.2948484
Longitude	92	27	23.9544504
Ellipsoid Height (M):	67.739		
Geoid Height (M):	-27.977		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.00 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 12.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230016 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.911 METERS. ELEVATION ON THIS MARK WAS ESTABLISH BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK D 18.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	171	19.00	62.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	230016A
Geodetic Azimuth	359 11 23.72766
Grid Azimuth	359 27 20.34408

Area Reference Monuments (used for Processing)

Ref Mon # 1	EARNHART HALE
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	230011

Comments

Elevation by 3 Wire from NGS point D 18

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230016A	3/24/2000	AHTD	FAULKNER	285	008570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	97,215.8793	
Easting (M)	358,413.9076	
Elevation (M)*	96.496	
Northing (SFT)	318,949.0973	
Easting (SFT)	1,175,896.2952	
Elevation (SFT)*	316.588	

Convergence Angle	0	15	56.7779357
Scale Factor	0.999957280		
Elevation Adjust. Factor	0.9999848568		
Combined Adjust. Factor	0.9999421375		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	12	31.4819712
Longitude	92	27	24.2333208
Ellipsoid Height (M):	68.455		
Geoid Height (M):	-27.979		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.75 METERS WEST OF THE CENTER OF STATE HIGHWAY 289, 1.00 METERS EAST OF A FENCE LINE AND 0.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230016A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.911 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	230016
Geodetic Azimuth	179 11 23.56689
Grid Azimuth	179 27 20.34408

Area Reference Monuments (used for Processing)

Ref Mon # 1	EARNHART HALE
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	230011

Comments

Elevation by 3 Wire from NGS point D 18

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230017	3/24/2000	AHTD	FAULKNER	285	008570,080426

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,837.7904
Easting (M)	356,639.9503
Elevation (M)*	95.645
Northing (SFT)	334,112.8173
Easting (SFT)	1,170,076.2369
Elevation (SFT)*	313.796

Convergence Angle	0	16	38.1055895
Scale Factor			0.999952817
Elevation Adjust. Factor			0.9999849904
Combined Adjust. Factor			0.9999378081

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	15	1.1883132
Longitude	92	28	35.2556544
Ellipsoid Height:			67.649
Grid Northing (Meters)			101,837.7793
Grid Easting (Meters)			356,639.9425

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	15	1.1886732
Longitude	92	28	35.2553448
Ellipsoid Height (M):	67.649		
Geoid Height (M):	-28.015		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 6.36 KM (3.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 1.25 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230017 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.378 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END LINE BRACE POST	34	2.65	8.7
MK # 2	MIDDLE END LINE BRACE POST	90	1.36	4.5
MK # 3	SOUTH END LINE BRACE POST	149	2.68	8.8

AZ Mark Station	230017A
Geodetic Azimuth	180 40 14.53901
Grid Azimuth	180 56 52.64539

Area Reference Monuments (used for Processing)

Ref Mon # 1	EARNHART HALE
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	230011

Comments

Elevation by 3 Wire from NGS point D 18

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230017A	3/24/2000	AHTD	FAULKNER	285	008570,080426

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,281.5278
Easting (M)	356,630.7374
Elevation (M)*	93.691
Northing (SFT)	332,287.8125
Easting (SFT)	1,170,046.0110
Elevation (SFT)*	307.386

Convergence Angle	0	16	38.2556888
Scale Factor			0.999953328
Elevation Adjust. Factor			0.9999852970
Combined Adjust. Factor			0.9999386257

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	14	43.1360844
Longitude	92	28	35.5132560
Ellipsoid Height:			65.589
Grid Northing (Meters)			101,281.5082
Grid Easting (Meters)			356,630.7382

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	14	43.1367180
Longitude	92	28	35.5132920
Ellipsoid Height (M):	65.589		
Geoid Height (M):	-28.017		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 285 AND STATE HIGHWAY 25, LOCATED IN WOOSTER, GO NORTH ON STATE HIGHWAY 285 FOR 5.79 KM (3.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 285 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230017A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.378 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END LINE BRACE POST	11	11.20	36.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	230017
Geodetic Azimuth	0 40 14.390339
Grid Azimuth	0 56 52.645390

Area Reference Monuments (used for Processing)

Ref Mon # 1	EARNHART HALE
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	230011

Comments

Elevation by 3 Wire from NGS point D 18

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230019	12/19/2001	AHTD	FAULKNER	I 40	10,8640_5,012119,080437,08(

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,587.4521	
Easting (M)	361,482.9580	
Elevation (M)*	87.587	
Northing (SFT)	228,304.8324	
Easting (SFT)	1,185,965.3380	
Elevation (SFT)*	287.359	

Convergence Angle	0	14	43.4461771
Scale Factor	0.999994900		
Elevation Adjust. Factor	0.9999862549		
Combined Adjust. Factor	0.9999811550		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	57	35.3877156
Longitude	92	25	18.2118936
Ellipsoid Height (M):	60.140		
Geoid Height (M):	-27.447		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 SOUTH LOCATED IN MAYFLOWER, GO EAST ON STATE HIGHWAY 89 SOUTH FOR 0.402 KM (0.25 MI) TO INTERSTATE DRIVE ON THE RIGHT, TURN RIGHT (SOUTH) ON INTERSTATE DRIVE AND GO SOUTH FOR 1.352 KM (0.84 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.65 METERS EAST OF THE EDGE OF THE PAVEMENT OF THE I 40 WEST BOUND LANES, 6.20 METERS WEST OF THE CENTER OF INTERSTATE DRIVE, AND 1.00 METER WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "230019 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 754.378 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	98	19.00	62.3
MK # 2	CENTER OF CONCRETE DRAIN UNDER I 40	214	20.95	68.7
MK # 3				

AZ Mark Station	230019A
Geodetic Azimuth	182 21 53
Grid Azimuth	182 36 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230019A	12/19/2001	AHTD	FAULKNER	I 40	10,8640_5,012119,080437,08(

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	68,833.8700	
Easting (M)	361,448.6050	
Elevation (M)*	84.869	
Northing (SFT)	225,832.4552	
Easting (SFT)	1,185,852.6316	
Elevation (SFT)*	278.442	

Convergence Angle	0	14	44.1600158
Scale Factor			0.999996189
Elevation Adjust. Factor			0.9999866814
Combined Adjust. Factor			0.9999828705

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	57	10.9292868
Longitude	92	25	19.4386332
Ellipsoid Height (M):	57.441		
Geoid Height (M):	-27.426		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 SOUTH LOCATED IN MAYFLOWER, GO EAST ON STATE HIGHWAY 89 SOUTH FOR 0.402 KM (0.25 MI) TO INTERSTATE DRIVE ON THE RIGHT, TURN RIGHT (SOUTH) ON INTERSTATE DRIVE AND GO SOUTH FOR 2.092 KM (1.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS EAST OF THE EDGE OF THE PAVEMENT OF THE I 40 WEST BOUND LANES, 6.55 METERS WEST OF THE CENTER OF INTERSTATE DRIVE, AND 1.53 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "230019A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 754.378 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	34	27.90	91.5
MK # 2	CENTER OF CONCRETE DRAIN UNDER I 40	305	12.90	42.3
MK # 3				

AZ Mark Station	230019
Geodetic Azimuth	2 21 52
Grid Azimuth	2 36 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230020	11/17/2006	AHTD	Faulkner	65B	12119,080388,080496, 08063

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	82,232.8872	0.0040
Easting (M)	360,485.0141	0.0040
Elevation (M)*	91.003	
Northing (SFT)	269,792.3974	
Easting (SFT)	1,182,691.2504	
Elevation (SFT)*	298.567	

Convergence Angle	0	15	7.6114693
Scale Factor			0.999975362
Elevation Adjust. Factor			0.9999857188
Combined Adjust. Factor			0.9999610812

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	4	25.5898236
Longitude	92	25	59.7406872
Ellipsoid Height:			63.239
Grid Northing (Meters)			82,232.8741
Grid Easting (Meters)			360,485.0020

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	4	25.5902520	
Longitude	92	25	59.7402120	
Ellipsoid Height (M):			63.073	0.0160
Geoid Height (M):			-27.909	0.0160

Location Description

To reach the station from the junction of highways 365-60 and 65B in Conway go north on hwy-65B for 0.50 miles to the station on the left 12.8 meters west-southwest of the center of hwy-65B, 6.30 meters north of an abandoned R/R crossing, 5.10 meters east-northeast of the east rail and 0.50 meters east-northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "230020 2004" set on top of a 5/8 inch by 2.03 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RR milepost #372	305	4.40	14.4
MK # 2	South gate post	223	22.80	74.8
MK # 3	Underground cable marker	5	4.45	14.6

AZ Mark Station	230011A
Geodetic Azimuth	159 50 01
Grid Azimuth	160 05 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

3-Wire Levels were ran by S5103 in Job 080273 in September 2006 from NGS BM D291/B291.
**********OLD REFERENCE MONUMENTS FOR SUPERCEDED POSITION NAD 83 (1997) ARE PJTC, BUTLER AND LROC. THE OLD GEOID HT. WAS -27.765m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230021	3/14/2005	AHTD	FAULKNER	64	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,081.3650	
Easting (M)	376,157.4890	
Elevation (M)*	105.351	
Northing (SFT)	266,014.4450	
Easting (SFT)	1,234,110.0285	
Elevation (SFT)*	345.639	

Convergence Angle	0	9	7.5656950
Scale Factor	0.999976901		
Elevation Adjust. Factor	0.9999834673		
Combined Adjust. Factor	0.9999603686		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	3	50.0173020
Longitude	92	15	40.9976208
Ellipsoid Height (M):	77.859		
Geoid Height (M):	-27.492		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 64, EAST OF CONWAY, GO EAST ON HIGHWAY 64 2.7 MILES TO BERYL ROAD ON THE RIGHT, TURN RIGHT ON BERYL ROAD AND GO 1.4 MILES TO THE STATION MARK ON THE RIGHT, 6.7 METERS WEST OF THE CENTERLINE OF THE ROAD AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230021 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOOD CORNER POST	2.0	10.25	33.6
MK # 2	COMBINATION POLE	30	30.15	98.9
MK # 3				

AZ Mark Station	230021A
Geodetic Azimuth	178 25 06
Grid Azimuth	178 34 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	230013
Ref Mon # 2	230014
Ref Mon # 3	230015

Comments

ELEVATONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230021A	3/14/2005	AHTD	FAULKNER	64	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	80,689.0981	
Easting (M)	376,167.2780	
Elevation (M)*	101.924	
Northing (SFT)	264,727.4827	
Easting (SFT)	1,234,142.1446	
Elevation (SFT)*	334.396	

Convergence Angle	0	9	7.3169792
Scale Factor	0.999977459		
Elevation Adjust. Factor	0.9999840051		
Combined Adjust. Factor	0.9999614644		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	3	37.2890448
Longitude	92	15	40.5702000
Ellipsoid Height (M):	74.440		
Geoid Height (M):	-27.484		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 64, EAST OF CONWAY, GO EAST ON HIGHWAY 64 2.7 MILES TO BERYL ROAD ON THE RIGHT, TURN RIGHT ON BERYL ROAD AND GO 1.65 MILES TO THE STATION MARK ON THE LEFT, 8.15 METERS EAST OF THE CENTERLINE OF THE ROAD AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230021A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TRANSMISSION LINE POLE	263	18.60	61.0
MK # 2	POWER POLE WITH GUY	300	19.75	64.8
MK # 3				

AZ Mark Station	230021
Geodetic Azimuth	358 25 07
Grid Azimuth	358 34 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	230013
Ref Mon # 2	230014
Ref Mon # 3	230015

Comments

ELEVATONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230022	3/14/2005	AHTD	FAULKNER	107	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,124.9000	
Easting (M)	382,414.0010	
Elevation (M)*	89.075	
Northing (SFT)	266,157.2761	
Easting (SFT)	1,254,636.6016	
Elevation (SFT)*	292.240	

Convergence Angle	0	6	43.8814024
Scale Factor	0.999976819		
Elevation Adjust. Factor	0.9999860214		
Combined Adjust. Factor	0.9999628407		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	3	51.8982696
Longitude	92	11	34.0745964
Ellipsoid Height (M):	61.654		
Geoid Height (M):	-27.419		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE. HIGHWAY 319 AND STATE HIGHWAY 107, LOCATED SOUTH OF VILONIA, GO NORTH ON U.S. HIGHWATY 107 FOR 0.5 METERS TO GREEN MEADOWS ROAD ON THE LEFT, TURN LEFT AND GO 0.05 MILES TO THE STATION M ARK ON THE LEFT, SOUTH 6.80 METERS OF THE CENTERLINE OF THE ROAD AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 230022 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	89	21.50	70.5
MK # 2	GAS METER	269	38.20	125.3
MK # 3				

AZ Mark Station	230022A
Geodetic Azimuth	160 14 18
Grid Azimuth	160 21 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	230013
Ref Mon # 2	230014
Ref Mon # 3	230015

Comments

ELEVATONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230022A	3/14/2005	AHTD	FAULKNER	107	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	80,605.5791	
Easting (M)	382,599.4280	
Elevation (M)*	90.976	
Northing (SFT)	264,453.4708	
Easting (SFT)	1,255,244.9567	
Elevation (SFT)*	298.477	

Convergence Angle	0	6	39.5997759	
Scale Factor			0.999977557	
Elevation Adjust. Factor			0.9999857231	
Combined Adjust. Factor			0.9999632804	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	3	35.0579448	
Longitude	92	11	26.7165744	
Ellipsoid Height (M):	63.563			
Geoid Height (M):	-27.408			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE. HIGHWAY 319 AND STATE HIGHWAY 107, LOCATED SOUTH OF VILONIA, GO NORTH ON U.S. HIGHWATY 107 FOR 0.1 METERS TO THE STATION M ARK ON THE RIGHT, EAST 9.10 METERS OF THE CENTERLINE OF THE ROAD AND WEST 2.75 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 230022A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	147	12.60	41.3
MK # 2				
MK # 3				

AZ Mark Station	230022
Geodetic Azimuth	340 14 22
Grid Azimuth	340 21 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	230013
Ref Mon # 2	230014
Ref Mon # 3	230015

Comments

ELEVATONS OBTAINED BY RUNNING 3 WIRE LEVELS FROM TBM-905 ON JOB 001848 BY CREW S5103 3/15/05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230023	3/14/2005	AHTD	FAULKNER	64	080149

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	82,948.1211	
Easting (M)	373,261.5730	
Elevation (M)*		
Northing (SFT)	272,138.9606	
Easting (SFT)	1,224,609.0108	
Elevation (SFT)*		

Convergence Angle	0	10	14.2004194
Scale Factor	0.999974308		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	4	50.3290416
Longitude	92	17	35.5101216
Ellipsoid Height (M):	65.648		
Geoid Height (M):	-27.569		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 36, LOCATED ABOUT 8.05 KM (5.00 MI) WEST OF VILONIA, GO EAST ON U.S. HIGHWATY 64 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS EAST 33 .20 METERS OF LIBERTY LOOP, 19.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64, 8.85 METERS WEST OF A ASPH DRIVE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "230023 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AHTD RIGHT OF WAY MARKER	241	18.15	59.5
MK # 2				
MK # 3				

AZ Mark Station	230013
Geodetic Azimuth	67 24 16
Grid Azimuth	67 34 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	230013
Ref Mon # 2	230014
Ref Mon # 3	230015

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230024	12/3/2008	AHTD	FAULKNER	36	080339

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	91,492.6611	
Easting (M)	379,557.9310	
Elevation (M)*	96.264	
Northing (SFT)	300,172.1723	
Easting (SFT)	1,245,266.3120	
Elevation (SFT)*	315.826	

Convergence Angle	0	7	50.0164873
Scale Factor	0.999963458		
Elevation Adjust. Factor	0.9999848933		
Combined Adjust. Factor	0.9999483518		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	9	28.1369556
Longitude	92	13	27.7284612
Ellipsoid Height (M):	68.663		
Geoid Height (M):	-27.601		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, GO WEST ON HIGHWAY 36 FOR 0.10 MILES TO THE STATION MARK ON THE RIGHT, 28.0 FEET NORTH WEST OF THE CENTERLINE OF THE HIGHWAY AND SOUTH EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230024 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	356	10.21	33.5
MK # 2	COMBINATION POLE W/GUY	56	30.48	100.0
MK # 3				

AZ Mark Station	230024A
Geodetic Azimuth	14 27 57
Grid Azimuth	14 35 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHR

Comments

CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230024A	12/3/2008	AHTD	FAULKNER	107	080339

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	92,041.1951	
Easting (M)	379,700.7760	
Elevation (M)*	93.661	
Northing (SFT)	301,971.8209	
Easting (SFT)	1,245,734.9626	
Elevation (SFT)*	307.287	

Convergence Angle	0	7	46.7606604
Scale Factor	0.999962823		
Elevation Adjust. Factor	0.9999853017		
Combined Adjust. Factor	0.9999481253		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	9	45.9474408
Longitude	92	13	22.1332872
Ellipsoid Height (M):	66.056		
Geoid Height (M):	-27.605		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, GO NORTH ON HIGHWAY 107 FOR 0.50 MILES TO THE STATION MARK ON THE LEFT, 37.0 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 2.5 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230024A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	109	23.38	76.7
MK # 2	WATER METER	20	16.00	52.5
MK # 3	S.E. CORNER OF WOOD FRAME HOUSE	350	23.01	75.5

AZ Mark Station	230024
Geodetic Azimuth	194 28 00
Grid Azimuth	194 35 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHR

Comments

CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230025	12/3/2008	AHTD	FAULKNER	36	080339

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	91,680.7261
Easting (M)	379,982.5530
Elevation (M)*	98.904
Northing (SFT)	300,789.1822
Easting (SFT)	1,246,659.4260
Elevation (SFT)*	324.487

Convergence Angle	0	7	40.2630023
Scale Factor			0.999963238
Elevation Adjust. Factor			0.9999844790
Combined Adjust. Factor			0.9999477176

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	9	34.2707508
Longitude	92	13	10.9669908
Ellipsoid Height (M):	71.307		
Geoid Height (M):	-27.597		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, GO EAST ON HIGHWAY 36 FOR 0.20 MILES TO THE STATION MARK ON THE RIGHT, 41.5 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 10.5 EAST OF THE CENTER LINE OF A FIELD ENTRANCE AND NORTH 8.0 OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230025 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD GATE POST	183	2.59	8.5
MK # 2	COMBINATION POLE	268	13.11	43.0
MK # 3	WOOD GATE POST	250	5.94	19.5

AZ Mark Station	230024
Geodetic Azimuth	245 59 01
Grid Azimuth	246 06 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHR

Comments

CREW S5102 RAN 3 WIRE DIGITAL LEVELS FROM Y 209 ON 12/5/08. M 208 WAS ALSO TIED BUT NOT USED IN CONTROL.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230026	1/27/2010	AHTD	Faulkner	365	012119,080388

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	78,813.2771	
Easting (M)	361,840.2160	
Elevation (M)*	87.894	
Northing (SFT)	258,573.2266	
Easting (SFT)	1,187,137.4420	
Elevation (SFT)*	288.367	

Convergence Angle	0	14	36.1508700
Scale Factor	0.999980253		
Elevation Adjust. Factor	0.9999862067		
Combined Adjust. Factor	0.9999664600		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	2	34.8143640
Longitude	92	25	5.6748288
Ellipsoid Height (M):	60.223		
Geoid Height (M):	-27.674		

Location Description

To reach the station from jct. SR-365 & SR-89 (Near exit 135 on I-40) in Mayflower go North on SR-365 5.2 miles to the station on the Left. 55 feet North of a private RR-Xing, 62.6 feet East of the East RR rail, 35 feet West of centerline of SR-365 and 13.3 feet East of a witness post. The station mark is a standard 2 1/2 inch cap stamped "230026 2010" set on top of a 4 foot rebar and driven 0.2 feet below the surface of the ground.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	RR signal box	183	33.00	108.3
MK # 2	Gas meter	90	26.20	86.0
MK # 3	Power pole with transformer	16	40.20	131.9

AZ Mark Station	Z 290
Geodetic Azimuth	155 36 04
Grid Azimuth	155 40 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHR

Comments

Elevation to this station is derived from digital level run from Benchmark Z 290 PID# FG1536 by crew S5102 in Feb. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230027	1/27/2010	AHTD	Faulkner	I-40	012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	73,725.2511	
Easting (M)	362,198.3830	
Elevation (M)*	94.425	
Northing (SFT)	241,880.2613	
Easting (SFT)	1,188,312.5282	
Elevation (SFT)*	309.793	

Convergence Angle	0	14	27.4361496
Scale Factor	0.999988069		
Elevation Adjust. Factor	0.9999851818		
Combined Adjust. Factor	0.9999732510		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	59	49.7574348
Longitude	92	24	50.6984868
Ellipsoid Height (M):	66.883		
Geoid Height (M):	-27.548		

Location Description

To reach the station from jct. of I-40 and US-64 (Exit-127) in Conway AR.. Follow I-40 east 7 miles to the station on the right at the north end of the I-40 east bound weigh station inside a gravel island, 2.5 feet west of the east edge of the curb, 3.6 feet east of the west edge of the curb. The station mark is a standard 2,5 inch cap stamped "230027 2010" set on top of a 4 foot rebar driven 0.20 foot below the surface of the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North end of the island	15	40.00	131.2
MK # 2				
MK # 3				

AZ Mark Station	230027A
Geodetic Azimuth	23 00 46
Grid Azimuth	23 15 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS D 70 & X 290 IN JOB 012119

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230027A	1/27/2010	AHTD	Faulkner	I-40	012119,080388

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	74,119.2560	
Easting (M)	362,367.6900	
Elevation (M)*	101.536	
Northing (SFT)	243,172.9257	
Easting (SFT)	1,188,867.9963	
Elevation (SFT)*	333.122	

Convergence Angle	0	14	23.5889482
Scale Factor	0.999987440		
Elevation Adjust. Factor	0.9999840660		
Combined Adjust. Factor	0.9999715062		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	0	2.5659180	
Longitude	92	24	44.0870292	
Ellipsoid Height (M):	73.983			
Geoid Height (M):	-27.555			

Location Description

To reach the station from the jct I-40 and US-64 (exit-127) in Conway AR. Follow I-40 east 6.7 miles to the station on the left, on top of the bank in the median. The statiom is 0.2 miles north of the north end of the east bound weigh station, 67 feet east of the I-40 east bound center line. The station mark is a standard 2.5 inch cap stamped "230027A 2010" set on top of a 4 foot rebar driven 0.2 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	8 INCH ELM TREE	28	20.70	67.9
MK # 2				
MK # 3				

AZ Mark Station	230027
Geodetic Azimuth	203 00 49
Grid Azimuth	203 15 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS D 70 & X 290 IN JOB 012119

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230028	1/27/2010	AHTD	Faulkner	NA	012119,080388,080496

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,041.0411	
Easting (M)	360,718.2320	
Elevation (M)*	102.876	
Northing (SFT)	279,005.4823	
Easting (SFT)	1,183,456.3995	
Elevation (SFT)*	337.519	

Convergence Angle	0	15	2.5370287
Scale Factor	0.999971551		
Elevation Adjust. Factor	0.9999838557		
Combined Adjust. Factor	0.9999554071		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	56.7477456
Longitude	92	25	51.0197304
Ellipsoid Height (M):	75.070		
Geoid Height (M):	-27.809		

Location Description

To reach the station from jct. I-40 & US-64 (exit 127) in Conway, follow US-64 West 1.3 miles to Siebenmorgen Rd. on right, go Right (East) on Siebenmorgen Rd. 0.4 miles to the station on the Left. The ststion is on top of North-West bank of Siebenmorgen overpass over I-40, 22 feet North of the centerline of Siebenmorgen Rd., 6.3 feet South-West of a R/W chain link fence and 6.3 feet South-West of a witness post. The station is a standard 2.5 inch cap stamped "230028 2010" set on top of a 4 foot rebar and driven 0.2 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NW end of overpass	105	5.80	19.0
MK # 2	West end of guard rail	265	21.60	70.9
MK # 3	Street light pole	131	15.80	51.8

AZ Mark Station	230028A
Geodetic Azimuth	269 00 43
Grid Azimuth	269 15 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

Elevation to this station is derived from digital level run from benchmark B 68 PID#FG0096 by crew S5102 in Feb. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230028A	1/27/2010	AHTD	Faulkner	NA	012119, 080388,080496

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,034.1241	
Easting (M)	360,180.7390	
Elevation (M)*	101.756	
Northing (SFT)	278,982.7888	
Easting (SFT)	1,181,692.9745	
Elevation (SFT)*	333.844	

Convergence Angle	0	15	14.8855913
Scale Factor	0.999971563		
Elevation Adjust. Factor	0.9999840314		
Combined Adjust. Factor	0.9999555949		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	56.4464508
Longitude	92	26	12.2408700
Ellipsoid Height (M):	73.937		
Geoid Height (M):	-27.819		

Location Description

To reach the station from jct. I-40 & US-64 (exit 127) in Conway, follow US-64 West 1.3 miles to Siebenmorgen Rd. on right, go Right (East) on Siebenmorgen Rd. 0.1 miles to the station on the Right. 30 feet South of the centerline of Siebenmorgen Rd., 61 feet West of the centerline of Sutton St., 13.5 feet North of an iron fence and 13.5 feet North of a witness post. The station is a standard 2.5 inch cap stamped "230028A 2010" set on top of a 4 foot rebar and driven 0.2 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Brick fence corner	178	4.00	13.1
MK # 2	Power pole	29	25.90	85.0
MK # 3	South end of a concrete culvert	278	23.20	76.1

AZ Mark Station	230028
Geodetic Azimuth	89 00 31
Grid Azimuth	89 15 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

Elevation to this station is derived from digital level run from benchmark B 68 PID#FG0096 by crew S5102 in Feb. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230029	3/23/2010	AHTD	FAULKNER	287	080384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	89,278.0851	
Easting (M)	374,804.5740	
Elevation (M)*	105.202	
Northing (SFT)	292,906.5175	
Easting (SFT)	1,229,671.3399	
Elevation (SFT)*	345.150	

Convergence Angle	0	9	39.1650710
Scale Factor	0.999966107		
Elevation Adjust. Factor	0.9999834906		
Combined Adjust. Factor	0.9999495982		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	15.8815536
Longitude	92	16	35.3014932
Ellipsoid Height (M):	77.566		
Geoid Height (M):	-27.636		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 287, NORTHEAST OF CONWAY, GO NORTH ON 287 1.45 MILES TO THE STATION MARK ON THE RIGHT, 15 FEET SOUTH OF AN ASPHAULT TURN IN, 54 FEET SOUTH OF AN ASPHAULT DRIVE, EAST 15.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 22.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "230029 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	42	10.36	34.0
MK # 2	FENCE CORNER	290	17.68	58.0
MK # 3				

AZ Mark Station	290029A
Geodetic Azimuth	1 13 27
Grid Azimuth	1 23 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARHR

Comments

ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230029A	3/23/2010	AHTD	FAULKNER	287	080384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	89,813.2971	
Easting (M)	374,817.5150	
Elevation (M)*	104.068	
Northing (SFT)	294,662.4589	
Easting (SFT)	1,229,713.7971	
Elevation (SFT)*	341.431	

Convergence Angle	0	9	38.9021271
Scale Factor	0.999965459		
Elevation Adjust. Factor	0.9999836685		
Combined Adjust. Factor	0.9999491281		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	33.2503836
Longitude	92	16	34.8496212
Ellipsoid Height (M):	76.426		
Geoid Height (M):	-27.642		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 287, NORTHEAST OF CONWAY, GO NORTH ON 287 1.1 MILES TO THE STATION MARK ON THE RIGHT, EAST 14.1 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 25.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "230029A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONC AHTD RIGHT OF WAY MARKER	331	32.31	106.0
MK # 2				
MK # 3				

AZ Mark Station	230029
Geodetic Azimuth	181 13 27
Grid Azimuth	181 23 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHR

Comments

ELEVATIONS RAN BY CREW S5112 ON 3/10 USING A DIGITAL 3 WIRE LEVEL FROM NGS BM WRB TO M 208.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230030	5/26/2011	AHTD	Faulkner	ramp from	080397

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,317.8624	0.0087
Easting (M)	358,057.0668	0.0073
Elevation (M)*	119.145	0.0012
Northing (SFT)	286,475.3536	
Easting (SFT)	1,174,725.5600	
Elevation (SFT)*	390.895	

Convergence Angle	0	16	3.9235060
Scale Factor	0.999968619		
Elevation Adjust. Factor	0.9999813026		
Combined Adjust. Factor	0.9999499222		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	35	7	10.2395684
Longitude	92	27	36.5130614
Ellipsoid Height (M):	91.259	0.0000	
Geoid Height (M):	-27.873	0.5319	

Location Description

To reach from the intersection of Highway 25 and Highway 64 in Conway, go west on Highway 64 for 0.5 miles to Salem St., go right towards the I-40-exit 124 overpass for 0.3 miles to the station on the left. The station is 31 feet west of the center line of the overpass road, 2 feet west of a witness post, 6.5 feet west of the guardrail, and 121 feet north of the centerline of I-40 west bound. The station is a standard 2 1/2" AHTD cap stamped "2011 230030", set on top of a 4 foot rebar and driven 0.2 inches below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW corner of DI	356	5.18	17.0
MK # 2	NW corner of Bridge over I-40	97	18.29	60.0
MK # 3				

AZ Mark Station	230030A
Geodetic Azimuth	259 53 03
Grid Azimuth	260 09 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	Earnhart Hale
Ref Mon # 3	ARLR

Comments

ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230030A	5/26/2011	AHTD	Faulkner	I-40	080397

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,251.1880	0.0092
Easting (M)	357,672.9811	0.0077
Elevation (M)*	112.099	0.0012
Northing (SFT)	286,256.6060	
Easting (SFT)	1,173,465.4388	
Elevation (SFT)*	367.778	

Convergence Angle	0	16	12.7431254
Scale Factor	0.999968706		
Elevation Adjust. Factor	0.9999824083		
Combined Adjust. Factor	0.9999511149		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	35	7	8.0174855
Longitude	92	27	51.6696735
Ellipsoid Height (M):	84.209	0.0068	
Geoid Height (M):	-27.896	0.5319	

Location Description

The station is set on the east-bound exit ramp from I-40 at mile marker 124 on the left of the ramp, 74 feet south of the centerline of I-40 east-bound lanes, 2 feet south of the witness post, and 31 feet north of the center of the exit ramp and exit 124 on east-bound I-40. The station is a standard 2 1/2" AHTD cap stamped "2011 230030A" , set on top of a 4 foot rebar and driven 0.2 inches below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" CMP	321	16.46	54.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	79 52 55
Grid Azimuth	80 09 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	Earnhart Hale
Ref Mon # 3	ARLR

Comments

ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230031	5/26/2011	AHTD	Faulkner	lighway 2	080397,080688

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	89,956.8698	0.0010
Easting (M)	359,327.2233	0.0010
Elevation (M)*	93.027	0.0023
Northing (SFT)	295,133.4970	
Easting (SFT)	1,178,892.7318	
Elevation (SFT)*	305.207	

Convergence Angle	0	15	35.0083701
Scale Factor			0.999965355
Elevation Adjust. Factor			0.9999854012
Combined Adjust. Factor			0.9999507567

SUPERCEDED CONTROL

Horizontal Datum			NAD83(1997)
Latitude	35	8	36.0650764
Longitude	92	26	46.8223305
Ellipsoid Height:			65.127
Grid Northing (Meters)			89,956.8835
Grid Easting (Meters)			359,327.2172

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	8	36.0646332	
Longitude	92	26	46.8220848	
Ellipsoid Height (M):			64.989	0.0030
Geoid Height (M):			-28.062	

Location Description

To reach the station from the intersection of Highway 25 and Highway 64 in Conway, go in a north easterly direction for 3.0 miles to Beaverfork Rd. The station is on the left at the intersection of Highway 25 and Beaverfork Rd, 18 feet north of the centerline of Beaverfork Rd, 4 feet north of a witness post and 64 feet southeast of Highway 25. The station is a standard 2 1/2" AHTD cap stamped "2011 230031", set on top of a 4 foot rebar and driven 0.2 inches below ground level.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	twin 18" cedar tree	229	24.99	82.0
MK # 2	18" sycamore tree	139	26.82	88.0
MK # 3	SW end of concrete drainage ditch	98	17.68	58.0

AZ Mark Station	230031A
Geodetic Azimuth	30 14 34
Grid Azimuth	30 30 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCW
Ref Mon # 2	ARBT
Ref Mon # 3	ARRV

Comments

ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230031A	5/26/2011	AHTD	Faulkner	lighway 2	080397,080688

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	90,650.3923	0.0010
Easting (M)	359,735.8231	0.0010
Elevation (M)*	86.119	0.0025
Northing (SFT)	297,408.8287	
Easting (SFT)	1,180,233.2796	
Elevation (SFT)*	282.540	

Convergence Angle	0	15	25.6869284
Scale Factor			0.999964525
Elevation Adjust. Factor			0.9999864854
Combined Adjust. Factor			0.9999510109

SUPERCEDED CONTROL

Horizontal Datum			NAD83(1997)
Latitude	35	8	58.6296586
Longitude	92	26	30.8050533
Ellipsoid Height:			58.215
Grid Northing (Meters)			90,650.4091
Grid Easting (Meters)			359,735.7734

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	8	58.6291200	
Longitude	92	26	30.8030856	
Ellipsoid Height (M):			58.035	0.0020
Geoid Height (M):			-28.064	

Location Description

To reach the station from the intersection of Highway 25 and Highway 64 in Conway, go in a northeasterly direction for 3.5 miles to the station on the right, 31 feet east of the centerline of Highway 25, 2 feet west of a witness post and 17 feet south of the center of a paved driveway to a field entrance. The station is a standard 2 1/2" AHTD cap stamped "2011 230031A", set on top of a 4 foot rebar and driven 0.2 inches below grouond level.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	210 14 43
Grid Azimuth	210 30 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCW
Ref Mon # 2	ARBT
Ref Mon # 3	ARRV

Comments

ELEV. IS BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM D 291 AND E 291 BY CREW S5102 IN JUNE 2011 DURING JOB 080397.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230032	10/4/2011	AHTD	FAULKNER	124/285	080426

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	110,347.1267
Easting (M)	358,439.8491
Elevation (M)*	132.888
Northing (SFT)	362,030.5315
Easting (SFT)	1,175,981.4049
Elevation (SFT)*	435.982
Convergence Angle	0 15 57.5836518
Scale Factor	0.999945949
Elevation Adjust. Factor	0.9999791461
Combined Adjust. Factor	0.9999250962

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid09
Latitude	35 19 37.5895992
Longitude	92 27 25.6179528
Ellipsoid Height (M):	104.852
Geoid Height (M):	-28.029

Location Description

STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285 3.9 MILES, WEST OF DAMASCUS, IN THE SOUTHWEST CORNER OF THE INTERSECTION, SOUTH 24.7 FEET OF THE CENTERLINE OF HIGHWAY 124 WEST, NORTH 61.0 FEET OF THE CENTERLINE OF HIGHWAY 285 AND NORTH 7.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230032 2011' ON TOP OF A 3 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF ROCK MONUMENT	123	4.27	14.0
MK # 2	FIRE HYDRANT	220	12.50	41.0
MK # 3				

AZ Mark Station	230032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD 35-19-38 92-27-26

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230032A	10/4/2011	AHTD	FAULKNER	124	080426

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	110,306.7384	
Easting (M)	358,024.3520	
Elevation (M)*	135.065	
Northing (SFT)	361,898.0242	
Easting (SFT)	1,174,618.2282	
Elevation (SFT)*	443.127	

Convergence Angle	0	16	7.1525796
Scale Factor	0.999945979		
Elevation Adjust. Factor	0.9999788043		
Combined Adjust. Factor	0.9999247844		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	19	36.2161164
Longitude	92	27	42.0622596
Ellipsoid Height (M):	107.014		
Geoid Height (M):	-28.038		

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285 3.9 MILES, WEST OF DAMASCUS, GO WEST ON HIGHWAY 124 .25 MILES TO THE STATION ON THE RIGHT. NORTH 26.8 FEET OF THE CENTER OF A DRIVEWAY, NORTH 29.6 FEET OF THE CENTERLINE OF HIGHWAY 124 WEST, SOUTH 11.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230032A 2011' ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	271	22.09	72.5
MK # 2				
MK # 3				

AZ Mark Station	230032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD 35-19-36 92-27-41

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230033	10/4/2011	AHTD	FAULKNER	285	080426

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,911.6216	
Easting (M)	356,924.3250	
Elevation (M)*	100.799	
Northing (SFT)	347,478.3785	
Easting (SFT)	1,171,009.2229	
Elevation (SFT)*	330.704	

Convergence Angle	0	16	32.0106679
Scale Factor	0.999949309		
Elevation Adjust. Factor	0.9999841816		
Combined Adjust. Factor	0.9999334914		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	17	13.4272824
Longitude	92	28	24.7811556
Ellipsoid Height (M):	72.719		
Geoid Height (M):	-28.079		

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285 3.9 MILES, WEST OF DAMASCUS, GO SOUTH ON HIGHWAY 285 2.95 MILES TO THE STATION ON THE RIGHT. SOUTH 73.2 FEET FROM THE CENTERLINE OF A PAVED FIELD ROAD ENTERANCE, WEST 38.0 OF THE CENTERLINE OF HIGHWAY 285 AND EAST 18.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230033 2011' ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE TO FIELD	290	8.53	28.0
MK # 2				
MK # 3				

AZ Mark Station	230033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD 35-17-13 92-28-24

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230033A	10/4/2011	AHTD	FAULKNER	285	080426

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,641.4109	
Easting (M)	357,124.1976	
Elevation (M)*	98.956	
Northing (SFT)	346,591.8623	
Easting (SFT)	1,171,664.9716	
Elevation (SFT)*	324.658	

Convergence Angle	0	16	27.3779865
Scale Factor	0.999949528		
Elevation Adjust. Factor	0.9999844708		
Combined Adjust. Factor	0.9999339996		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	17	4.6901904
Longitude	92	28	16.8198420
Ellipsoid Height (M):	70.882		
Geoid Height (M):	-28.076		

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285 3.9 MILES, WEST OF DAMASCUS, GO SOUTH ON HIGHWAY 285 3.20 MILES TO THE STATION ON THE RIGHT. EAST 70.5 OF PAVED ROAD TO ARKANSAS GAME AND FISH COMM. HWY 285 ACCESS ENTERANCE, SOUTWEST 73.8 OF THE CENTERLINE OF HIGHWAY 285 AND NORTHEAST 18.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230033A 2011' ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	297	9.42	30.9
MK # 2				
MK # 3				

AZ Mark Station	230033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD 35-17-04 92-28-17

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230034	9/1/2011	AHTD	FAULKNER	64	012154Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,305.2469	
Easting (M)	387,804.8165	
Elevation (M)*	99.934	
Northing (SFT)	279,872.2975	
Easting (SFT)	1,272,322.9688	
Elevation (SFT)*	327.866	

Convergence Angle	0	4	40.2061285
Scale Factor	0.999971100		
Elevation Adjust. Factor	0.9999843174		
Combined Adjust. Factor	0.9999554178		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	6	7.8412860
Longitude	92	8	1.5372888
Ellipsoid Height (M):	72.418		
Geoid Height (M):	-27.534		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWWAY 5, SOUTH OF ELPASO, GO WEST ON 64 FOR 2.6 MILES TO THE STATION MARK ON THE RIGHT, NORTHWEST 34.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 3.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "230030 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	230012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD, 35-06-08, 92-08-01, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230035	4/9/2013	AHTD	FAULKNER	89	080457

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,755.1076	0.0030
Easting (M)	359,714.6785	0.0030
Elevation (M)*	90.710	
Northing (SFT)	228,854.8822	
Easting (SFT)	1,180,163.9077	
Elevation (SFT)*	297.603	

Convergence Angle	0	15	24.0210178	
Scale Factor	0.999994629			
Elevation Adjust. Factor	0.9999857649			
Combined Adjust. Factor	0.9999803940			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	57	40.5767052
Longitude	92	26	27.9402000
Ellipsoid Height (M):	63.230		0.0097
Geoid Height (M):	-27.480		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 NORTH, IN MAYFLOWER, GO NORTH ON HIGHWAY 89 FOR 1.25 MILES TO THE STATION MARK ON THE RIGHT, NORTH 47.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND AT THE SOUTHEAST CORNER OF THE NORTHSIDE APOSTOLIC CHURCH PARKING LOT. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 230035" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	263	8.41	27.6
MK # 2	EAST END 24" CMP	250	15.45	50.7
MK # 3				

AZ Mark Station	230035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	P777
Ref Mon # 3	230019

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BETWEEN 1ST ORDER NGS BENCHMARKS F 70 & X 290 BY S5112 IN APRIL 2013 FOR JOB # 080457. *NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230035A	4/9/2013	AHTD	FAULKNER	89	080457

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,746.2385	0.0030
Easting (M)	359,148.5177	0.0030
Elevation (M)*	86.347	
Northing (SFT)	228,825.7841	
Easting (SFT)	1,178,306.4285	
Elevation (SFT)*	283.289	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	34	57	40.2060240	
Longitude	92	26	50.2548612	
Ellipsoid Height (M):	58.858			0.0107
Geoid Height (M):	-27.489			

Convergence Angle	0	15	37.0058997
Scale Factor	0.999994648		
Elevation Adjust. Factor	0.9999864496		
Combined Adjust. Factor	0.9999810976		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89 NORTH, IN MAYFLOWER, GO NORTH ON HIGHWAY 89 FOR 1.55 MILES TO THE STATION MARK ON THE LEFT, SOUTH 35.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND 14.5 FEET WEST OF A DRIVE WAY AND 15.7 FEET EAST OF ANOTHER DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 230035A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	95	28.96	95.0
MK # 2	NORTHWEST CORNER OF 1-S-FRAME HOUSE	154	17.37	57.0
MK # 3				

AZ Mark Station	230035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	P777
Ref Mon # 3	230019

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BETWEEN 1ST ORDER NGS BENCHMARKS F 70 & X 290 BY S5112 IN APRIL 2013 FOR JOB # 080457. *NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230036	4/29/2015	AHTD	FAULKNER	25	012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	107,648.0231	0.0030
Easting (M)	367,041.6284	0.0030
Elevation (M)*	195.193	
Northing (SFT)	353,175.2225	
Easting (SFT)	1,204,202.4092	
Elevation (SFT)*	640.396	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	18	11.1664620	
Longitude	92	21	44.6315688	
Ellipsoid Height (M):	167.257			0.0060
Geoid Height (M):	-27.930			0.0060

Convergence Angle	0	12	39.1639723
Scale Factor	0.999947905		
Elevation Adjust. Factor	0.9999693688		
Combined Adjust. Factor	0.9999172754		

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25N AND STATE HIGHWAY 65, NORTH OF GREENBRIER, GO NORTH ON HIGHWAY 25 3.1 MILES TO THE MARK ON THE LEFT, WEST 22.1 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230036" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BARN	277	89.90	294.9
MK # 2	FENCE CORNER	247	102.00	334.6
MK # 3	POWER POLE	30	94.60	310.4

AZ Mark Station	230006A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

*NOTE: THIS MONUMENT REPLACES 230006 THAT WAS DESTROYED IN PREVIOUS HWY. WIDENING. M 68 WAS ALSO DESTROYED FROM PREVIOUS HWY. WIDENING JOB. FOR JOB # 012227 S5112 YIELDED TO THE ORIGINAL ELEV. ON 230006A. ELEV. BASED ON DIGITAL LEVELS FROM GPS # 230006A WHICH WAS BASED ON 3 WR LEVEL RUN FROM NGS 2ND ORDER BM M 68. QUALITY OF ELEV. ON 230006A WAS VERIFIED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230037	4/29/2015	AHTD	FAULKNER	25	012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,109.2310	0.0030
Easting (M)	370,585.2099	0.0030
Elevation (M)*	209.087	
Northing (SFT)	361,250.0354	
Easting (SFT)	1,215,828.3095	
Elevation (SFT)*	685.978	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	19	31.4322996	
Longitude	92	19	24.6828252	
Ellipsoid Height (M):	181.220			0.0070
Geoid Height (M):	-27.856			0.0070

Convergence Angle	0	11	17.7279204
Scale Factor	0.999946083		
Elevation Adjust. Factor	0.9999671886		
Combined Adjust. Factor	0.9999132733		

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107S, SOUTHWEST OF QUITMAN, GO SOUTH ON HIGHWAY 25 6.5 MILES TO THE MARK ON THE RIGHT, NORTH 54.2 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230037" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANDT	310	32.90	107.9
MK # 2	MANHOLE	71	99.20	325.5
MK # 3				

AZ Mark Station	230037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230037A	4/29/2015	AHTD	FAULKNER	25	012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	109,947.2883	0.0020
Easting (M)	371,040.3005	0.0020
Elevation (M)*	211.842	
Northing (SFT)	360,718.7284	
Easting (SFT)	1,217,321.3859	
Elevation (SFT)*	695.018	

Convergence Angle	0	11	7.2304646	
Scale Factor	0.999946197			
Elevation Adjust. Factor	0.9999667562			
Combined Adjust. Factor	0.9999129550			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	19	26.2254612	
Longitude	92	19	6.6428328	
Ellipsoid Height (M):	183.986			0.0060
Geoid Height (M):	-27.849			0.0060

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 107S, SOUTHWEST OF QUITMAN, GO SOUTH ON HIGHWAY 25 6.2 MILES TO THE MARK ON THE RIGHT, NORTH 87 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2015 230037A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	208	28.80	94.5
MK # 2	GUY WIRE	210	3.00	9.8
MK # 3				

AZ Mark Station	230037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN 2015 FROM AHTD GPS # 230006A WHOSE ELEV. WAS PREVIOUSLY BASED ON LEVELS FROM 2ND ORDER NGS BM M 68 (MONUMENT LATER DESTROYED) & CHECKED USING CONSTRAINTS IN STATIC GPS PROJECT FROM 2ND ORDER NGS BM's Q 68 & Y 68.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230038	2/18/2016	AHTD	FAULKNER	365	061507

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	63,773.6449	0.0020
Easting (M)	359,194.2589	0.0020
Elevation (M)*	83.627	

Northing (SFT)	209,230.7000	
Easting (SFT)	1,178,456.4977	
Elevation (SFT)*	274.365	

Convergence Angle	0	15	35.3355438
Scale Factor	1.000005217		
Elevation Adjust. Factor	0.9999868764		
Combined Adjust. Factor	0.9999920934		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	54	26.4031308
Longitude	92	26	47.3843364
Ellipsoid Height (M):	56.183		0.0030
Geoid Height (M):	-27.448		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89, IN MAYFLOWER, GO EAST ON HIGHWAY 365 3.65 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 31 FEET AND NORTHEAST OF THE CENTERLINE OF AN ASPHAULT ROAD APRON 18 FEET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 230038" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE W/2 TELEPHONE BOXES	313		
MK # 2		25		
MK # 3				

AZ Mark Station	T 290
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM T 290 IN FEB. 2016 FOR JOB #061507.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230039	3/20/2017	AHTD	FAULKNER	US-64	080563

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	83,520.3529	0.0020
Easting (M)	368,781.1469	0.0020
Elevation (M)*		

Northing (SFT)	274,016.3578	
Easting (SFT)	1,209,909.4795	
Elevation (SFT)*		

Convergence Angle	0	11	57.1638821
Scale Factor			0.999973547
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	5	8.4287616
Longitude	92	20	32.4539556
Ellipsoid Height (M):	63.749		0.0050
Geoid Height (M):	-27.807		0.0050

Location Description

TO REACH THE STATION MARK FROMK THE JUNCTION OF STATE HIGHWAY 64 AND SATE HIGHWAY 36, EAST OF CONWAY, GO EAST ON HIGHWAY 64 2.21 MILES TO THE STATION ON THE RIGHT, 44' NORTH OF THE C/L OF THE HIGHWAY AND 38' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "230009 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	28	13.40	44.0
MK # 2	CTR OF H/W	275	37.80	124.0
MK # 3	CULVERT	240	8.50	27.9

AZ Mark Station	230039A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	P777

Comments

GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & NGS 2ND ORDER BM U 333.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230039A	3/20/2017	AHTD	FAULKNER	US-64	080563

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	83,513.0242	0.0020
Easting (M)	369,324.4200	0.0020
Elevation (M)*		
Northing (SFT)	273,992.3136	
Easting (SFT)	1,211,691.8680	
Elevation (SFT)*		

Convergence Angle	0	11	44.6832589	
Scale Factor	0.999973554			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	5	8.2517100	
Longitude	92	20	11.0058684	
Ellipsoid Height (M):	68.565		0.0050	
Geoid Height (M):	-27.798		0.0050	

Location Description

TO REACH THE STATION MARK FROMK THE JUNCTION OF STATE HIGHWAY 64 AND SATE HIGHWAY 36, EAST OF CONWAY, GO EAST ON HIGHWAY 64 1.9 MILES TO THE STATION ON THE LEFT, 45' SOUTH OF THE C/L OF THE HIGHWAY AND 28' NORTH OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "230009A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	123	15.80	51.8
MK # 2	COMBINATION POLE	255	32.60	107.0
MK # 3				

AZ Mark Station	230039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	P777

Comments

GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARBT, ARHR, ARLR & NGS 2ND ORDER BM U 333.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230040	11/3/2022	AHTD S5101	Faulkner	65	080685

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	96,575.1627	0.0010
Easting (M)	364,522.4835	0.0010
Elevation (M)*	132.420	
Northing (SFT)	316,847.0130	
Easting (SFT)	1,195,937.5146	
Elevation (SFT)*	434.449	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	12	11.5427772	
Longitude	92	23	22.6145940	
Ellipsoid Height (M):	104.397			0.0120
Geoid Height (M):	-28.023			0.0000

Convergence Angle	0	13	36.1802092
Scale Factor	0.999957914		
Elevation Adjust. Factor	0.9999792194		
Combined Adjust. Factor	0.9999371343		

Location Description

TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL SOUTH ALONG U.S. HIGHWAY 65, 1.8 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230040, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 10 FEET (3.05M) EAST OF THE BACK OF THE CURB, AND 61 FEET (18.59M) SOUTH OF THE CENTER OF A PAVED DRIVWAY.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	174	10.06	33.0
MK # 2	TELEPHONE PEDESTAL	15	25.91	85.0
MK # 3				

AZ Mark Station	230040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARRV
Ref Mon # 2	ARSC
Ref Mon # 3	ARLR

Comments

10 FEET (3.05M) EAST OF THE BACK OF THE EAST CURB, 61 FEET (18.59M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY BRICK HOUSE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230040A	11/3/2022	AHTD S5101	Faulkner	65	080685

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	97,110.9037	0.0010
Easting (M)	364,576.9001	0.0010
Elevation (M)*	115.245	
Northing (SFT)	318,604.6899	
Easting (SFT)	1,196,116.0464	
Elevation (SFT)*	378.099	

Convergence Angle	0	13	34.9770355	
Scale Factor			0.999957361	
Elevation Adjust. Factor			0.9999819146	
Combined Adjust. Factor			0.9999392764	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	12	28.9344600	
Longitude	92	23	20.5469268	
Ellipsoid Height (M):			87.221	0.0110
Geoid Height (M):			-28.025	0.0000

Location Description

TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL SOUTH ALONG U.S. HIGHWAY 65, 1.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230040A, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 4.0 FEET (1.07M) EAST OF A WITNESS POST, 19 FEET (7.01M) WEST OF THE BACK OF THE CURB, 101 FEET (30.78M) SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE, AND 107 FEET (32.61M) NORTH OF THE CENTER OF A PAVED FIELD ENTRANCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	284	1.22	4.0
MK # 2	TELEPHONE HAND HOLE (IN GROUND)	5	40.54	133.0
MK # 3				

AZ Mark Station	230040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARRV
Ref Mon # 2	ARSC
Ref Mon # 3	ARLR

Comments

23 FEET (7.01M) WEST OF THE BACK OF THE WEST CURB 107 FEET (32.61M) NORTH OF THE CENTERLINE OF A PAVED FIELD ENTRANCE 101 FEET (30.78M) SOUTH OF THE CENTERLINE OF A PAVED FIELD ENTRANCE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230041	11/3/2022	AHTD S5101	Faulkner	65	080685

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	101,178.4213	0.0010
Easting (M)	364,716.2435	0.0010
Elevation (M)*	121.141	
Northing (SFT)	331,949.5372	
Easting (SFT)	1,196,573.2089	
Elevation (SFT)*	397.443	

Convergence Angle	0	13	32.1396648
Scale Factor	0.999953390		
Elevation Adjust. Factor	0.9999809894		
Combined Adjust. Factor	0.9999343803		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	14	40.9423776
Longitude	92	23	15.6708744
Ellipsoid Height (M):	93.129		0.0110
Geoid Height (M):	-28.025		0.0000

Location Description

TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL NORTH ALONG U.S. HIGHWAY 65, 1.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230041, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 13 FEET (3.96M) WEST OF THE BACK OF THE CURB, 98 FEET (29.87M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY, AND 67 FEET (20.42M) NORTH OF THE CENTER OF A PAVED DRIVEWAY.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN SIGN POST (COLE'S CUTS)	274	4.57	15.0
MK # 2	METAL SIGN POST (ALL APPLIANCES & MO RE)	355	21.33	70.0
MK # 3	STORM SEWER MAN HOLE	167	30.17	99.0

AZ Mark Station	230041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARRV
Ref Mon # 2	ARSC
Ref Mon # 3	ARLR

Comments

SOUTH 98 FEET (29.87M) FROM THE CENTER OF A PAVED DRIVWAY LEADING TO A ONE STORY METAL BUILDING NORTH 67 FEET (20.42m) FROM THE CENTER OF A PAVED DRIVEWAY LEADING TO A ONE STORY BRICK BUILDING

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
230041A	11/3/2022	AHTD S5101	Faulkner	65	080685

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	101,916.1955	0.0010
Easting (M)	364,758.8407	0.0010
Elevation (M)*		

Northing (SFT)	334,370.0514	
Easting (SFT)	1,196,712.9632	
Elevation (SFT)*		

Convergence Angle	0	13	31.2259871
Scale Factor			0.999952714
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	35	15	4.8884040	
Longitude	92	23	14.1007092	
Ellipsoid Height (M):	118.743			0.0110
Geoid Height (M):	-28.021			0.0000

Location Description

TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 25 SOUTH, LOCATED IN GREENBRIAR, FAULKNER COUNTY ARKANSAS TRAVEL NORTH ALONG U.S. HIGHWAY 65, 1.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5 INCH ALUMINUM CAP STAMPED 230041A, 2022 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 14 FEET (4.26M) EAST OF THE BACK OF THE CURB, 57 FEET (17.37M) SOUTH OF THE CENTER OF A PAVED DRIVEWAY.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL SIGN POST	54	14.33	47.0
MK # 2	COMBINATION POLE	165	15.24	50.0
MK # 3	STORM SEWER MANHOLE	191	17.37	57.0

AZ Mark Station	230041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARRV
Ref Mon # 2	ARSC
Ref Mon # 3	ARLR

Comments

14 FEET (4.68M) EAST OF THE BACK OF THE EAST CURB 29 FEET (8.84M) WEST OF THE BACK OF THE PARKING LOT CURB SOUTH
57 FEET (17.37M) SOUTH OF THE CENTER OF A CONCRETE DRIVEWAY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240001	5/2/1991	AHTD	FRANKLIN	23	1648, 040621

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	151,702.3814	0.0030
Easting (M)	235,328.2477	0.0030
Elevation (M)*	227.115	
Northing (SFT)	497,710.2296	
Easting (SFT)	772,072.7593	
Elevation (SFT)*	745.126	

Convergence Angle	-1	3	31.3895165
Scale Factor			0.999937538
Elevation Adjust. Factor			0.9999643595
Combined Adjust. Factor			0.9999018998

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	41	13.2900000
Longitude	93	49	9.9146388
Ellipsoid Height:			198.730
Grid Northing (Meters)			151,702.3822
Grid Easting (Meters)			235,328.2434

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	41	13.2899748	
Longitude	93	49	9.9144660	
Ellipsoid Height (M):			198.684	0.0060
Geoid Height (M):			-28.450	0.0060

Location Description

FROM THE JCT. OF I-40 & HWY. 23, GO NORTH ON HWY. 23 TO THE JOB CORPS TRAINING CENTER AT CASS. THE STATION IS 37.96 FEET RIGHT OF THE CENTERLINE OF HWY. 23, 41.56 FEET RIGHT OF THE FIRST ENTRANCE TO THE JOB CORPS TRAINING CENTER, 50.03 FEET RIGHT OF A GRAVEL ROAD AND 1.65 FEET WEST OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	15	49.52	162.5
MK # 2	NBC IN COMBINATION POLE	142	19.22	63.1
MK # 3	NBC IN POWER POLE	212	66.83	219.3

AZ Mark Station	91240002
Geodetic Azimuth	0 51 18
Grid Azimuth	1 54 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM X 92 BY CREW S5112 IN OCT. 2015 FOR JOB #040621. USED STATIC GPS CONSTRAINING ORHTO. HTS. ON CORS ARFY, ARHR, & ARLR TO VERIFY ELEVATIONS RAN FROM X 92 TO GPS POINTS 240001 & 240002 FIT ELEVATIONS RAN FROM W 92 TO GPS POINTS 240009 & 240009A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240002	5/2/1991	AHTD	FRANKLIN	23	1648, 040621

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	152,020.5513	0.0030
Easting (M)	235,338.8859	0.0030
Elevation (M)*	228.261	

Northing (SFT)	498,754.0921	
Easting (SFT)	772,107.6615	
Elevation (SFT)*	748.887	

Convergence Angle	-1	3	31.2794056
Scale Factor			0.999937629
Elevation Adjust. Factor			0.9999641797
Combined Adjust. Factor			0.9999018109

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	41	23.6186340
Longitude	93	49	9.7253868
Ellipsoid Height:			199.879
Grid Northing (Meters)			152,020.5521
Grid Easting (Meters)			235,338.8822

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	41	23.6186088	
Longitude	93	49	9.7252392	
Ellipsoid Height (M):			199.833	0.0060
Geoid Height (M):			-28.439	0.0060

Location Description

FROM THE MULBERRY RIVER BRIDGE, GO 1.90 MILES NORTH ON HWY. 23 TO THE FOURTH ENTRANCE TO JOB CORPS CENTER. THE STATION IS 44.70 FEET LEFT OF THE CENTERLINE OF THE DRIVE TO STAFF HOUSING, 96 FEET FROM THE CENTERLINE OF HWY. 23 AND 1.35 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	31	24.38	80.0
MK # 2	NBC IN COMBINATION POLE	174	76.60	251.3
MK # 3	NBC IN POWER POLE	213	33.54	110.0

AZ Mark Station	91240001 AZ. MK.
Geodetic Azimuth	180 51 18
Grid Azimuth	181 54 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM X 92 BY CREW S5112 IN OCT. 2015 FOR JOB #040621. USED STATIC GPS CONSTRAINING ORHTO. HTS. ON CORS ARFY, ARHR, & ARLR TO VERIFY ELEVATIONS RAN FROM X 92 TO GPS POINTS 240001 & 240002 FIT ELEVATIONS RAN FROM W 92 TO GPS POINTS 240009 & 240009A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240003	5/7/1991	AHTD	FRANKLIN	83	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	151,404.8740
Easting (M)	241,784.8090
Elevation (M)*	
Northing (SFT)	496,734.1574
Easting (SFT)	793,255.6609
Elevation (SFT)*	

Convergence Angle	-1	1	1.8597869
Scale Factor			0.999937488
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	41	7.4330844
Longitude	93	44	52.9459944
Ellipsoid Height (M):	212.144		
Geoid Height (M):	-28.958		

Location Description

FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 4.75 MILES TO A CONCRETE BRIDGE AND TURN RIGHT AT THE END OF THE BRIDGE ONTO A FIELD ROAD, FOLLOW FIELD ROAD FOR 0.10 MILES TO THE STATION ON THE RIGHT. THE STATION IS 230 FEET FROM THE CENTERLINE OF THE CO. RD. AND 1.85 FEET NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	347	151.55	497.2
MK # 2	NBC IN COMBINATION POLE	348	59.52	195.3
MK # 3	NBC IN 26" SWEET GUM	243	41.30	135.5

AZ Mark Station	91240004
Geodetic Azimuth	141 21 59
Grid Azimuth	142 23 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91240003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240004	5/7/1991	AHTD	FRANKLIN	83	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	150,724.4450
Easting (M)	242,309.1210
Elevation (M)*	
Northing (SFT)	494,501.7833
Easting (SFT)	794,975.8411
Elevation (SFT)*	

Convergence Angle	-1	0	49.4486180
Scale Factor	0.999937308		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	45.6593844
Longitude	93	44	31.6172652
Ellipsoid Height (M):	217.302		
Geoid Height (M):	-28.975		

Location Description

FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 5.30 MILES TO THE ENTRANCE TO BYRDS CANOE RENTAL, GO 612.74 FEET DOWN DRIVE TO STATION ON THE RIGHT THE STATION IS 93.64 FEET RIGHT OF THE DRIVE TO BYRDS CANOE RENTAL AND 9.22 FEET FROM A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	280	2.81	9.2
MK # 2	NBC IN COMBINATION POLE	15	113.64	372.8
MK # 3	NBC IN 18" PINE	34	72.76	238.7

AZ Mark Station	91240003 AZ. MK.
Geodetic Azimuth	321 22 12
Grid Azimuth	322 23 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91240004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240005	5/7/1991	AHTD	FRANKLIN	83	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	150,582.3540
Easting (M)	245,911.9420
Elevation (M)*	
Northing (SFT)	494,035.6064
Easting (SFT)	806,796.0964
Elevation (SFT)*	

Convergence Angle	0	59	26.0282969
Scale Factor			0.999937287
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	43.0941540
Longitude	93	42	8.2585332
Ellipsoid Height (M):	230.730		
Geoid Height (M):	-28.980		

Location Description

FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 8.05 MILES ON CO. RD. TO A FIELD ENTRANCE ON THE RIGHT, GO SOUTHWEST THROUGH FIELD PAST SMALL BARN. THE STATION IS 2.4 FEET NORTHWEST OF A WITNESS POST AND JUST WEST OF THE JOHNSON COUNTY LINE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF BARN	60	29.31	96.2
MK # 2	TOP OF SW BOLT ON WELL CURBING	89	63.69	208.9
MK # 3	NBC IN 30" OAK	111	43.11	141.4

AZ Mark Station	91360007
Geodetic Azimuth	113 01 28
Grid Azimuth	114 00 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91240005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240006	9/8/1998	AHTD	FRANKLIN	22	40148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	109,649.7201	
Easting (M)	223,667.8470	
Elevation (M)*	149.882	
Northing (SFT)	359,742.4567	
Easting (SFT)	733,816.9280	
Elevation (SFT)*	491.738	

Convergence Angle	-1	7	42.0405700
Scale Factor	0.999947656		
Elevation Adjust. Factor	0.9999764792		
Combined Adjust. Factor	0.9999241364		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	21.7454292
Longitude	93	56	20.6610360
Ellipsoid Height (M):	120.150		
Geoid Height (M):	-29.697		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO EAST ON STATE HIGHWAY 22 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.014 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 22 AND 1.14 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240006 1998" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	263	18.32	60.1
MK # 2	COMBINATION POLE	87	47.73	156.6
MK # 3				

AZ Mark Station	240006A
Geodetic Azimuth	90 22 05.071073
Grid Azimuth	91 29 47.079695

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	AHTD FS2
Ref Mon # 3	Q 299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240006A	9/8/1998	AHTD	FRANKLIN	22	40148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	109,639.0641	
Easting (M)	224,075.7520	
Elevation (M)*	148.847	
Northing (SFT)	359,707.4961	
Easting (SFT)	735,155.1964	
Elevation (SFT)*	488.342	

Convergence Angle	-1	7	32.6415460
Scale Factor	0.999947658		
Elevation Adjust. Factor	0.9999766416		
Combined Adjust. Factor	0.9999243008		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	21.6600624
Longitude	93	56	4.5087108
Ellipsoid Height (M):	119.122		
Geoid Height (M):	-29.694		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO EAST ON STATE HIGHWAY 22 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.23 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 22 And 5.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240006A 1998" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CABLE MARKED SIGN	166	5.90	19.4
MK # 2	COMBINATION POLE	101	20.55	67.4
MK # 3				

AZ Mark Station	240006
Geodetic Azimuth	270 22 14.40621
Grid Azimuth	271 29 47.07970

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	AHTD FS2
Ref Mon # 3	Q 299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240007	9/8/1998	AHTD	FRANKLIN	41	40148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	115,797.1090	
Easting (M)	224,237.8950	
Elevation (M)*	129.025	
Northing (SFT)	379,911.0151	
Easting (SFT)	735,687.1605	
Elevation (SFT)*	423.310	

Convergence Angle	-1	7	31.6935255
Scale Factor	0.999943448		
Elevation Adjust. Factor	0.9999797522		
Combined Adjust. Factor	0.9999232013		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	21	41.5520820
Longitude	93	56	2.8795272
Ellipsoid Height (M):	99.470		
Geoid Height (M):	-29.544		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 60, LOCATED ABOUTH 6.44 KM (4.00 MI) NORTH OF BRANCH, GO NORTH ON STATE HIGHWAY 41FOR 0.17 KM (0.11 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.613 METERS WEST OF THE CENTER OF STATE HIGHWAY 41 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "240007 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	67	23.98	78.7
MK # 2	POWER POLE	100	23.24	76.2
MK # 3	CABLE MARKER SIGN	180	59.44	195.0

AZ Mark Station	240007A
Geodetic Azimuth	179 05 03.26691
Grid Azimuth	180 12 34.95996

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	AHTD FS2
Ref Mon # 3	Q 299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240007A	9/8/1998	AHTD	FRANKLIN	41	40148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	115,320.9801	
Easting (M)	224,236.1520	
Elevation (M)*	132.199	
Northing (SFT)	378,348.9155	
Easting (SFT)	735,681.4420	
Elevation (SFT)*	433.723	

Convergence Angle	-1	7	31.5181332
Scale Factor	0.999943740		
Elevation Adjust. Factor	0.9999792541		
Combined Adjust. Factor	0.9999229953		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	21	26.1037080
Longitude	93	56	2.5781136
Ellipsoid Height (M):	102.623		
Geoid Height (M):	-29.557		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 60, LOCATED ABOUTH 6.44 KM (4.00 MI) NORTH OF BRANCH, GO SOUTH ON STATE HIGHWAY 41 FOR 0.31 KM (0.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 41 AND 1.855 METERS WEST OF A WITNESS POST SET IN A BARBED WIRE FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240007A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	ROCK FENCE POST	25	3.86	12.7
MK # 2	ROCK FENCE POST	171	18.15	59.5
MK # 3				

AZ Mark Station	240007
Geodetic Azimuth	359 05 03.44134
Grid Azimuth	0 12 34.95996

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	AHTD FS2
Ref Mon # 3	Q 299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240008	11/13/2000	AHTD	FRANKLIN	41	004984

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	106,045.4931
Easting (M)	223,130.6780
Elevation (M)*	
Northing (SFT)	347,917.5886
Easting (SFT)	732,054.5661
Elevation (SFT)*	
Convergence Angle	-1 7 52.7725386
Scale Factor	0.999950560
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 16 24.4676460
Longitude	93 56 39.1040412
Ellipsoid Height (M):	104.446
Geoid Height (M):	-29.786

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO SOUTH ON STATE HIGHWAY 41 FOR 4.38 KM (2.72 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.26 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 41 AND 0.38 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 518.771 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	240008A
Geodetic Azimuth	270 51 05
Grid Azimuth	271 58 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS 2
Ref Mon # 2	OZARPORT
Ref Mon # 3	420006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240008A	11/13/2000	AHTD	FRANKLIN	41	004984

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	106,063.4421
Easting (M)	222,612.2480
Elevation (M)*	
Northing (SFT)	347,976.4763
Easting (SFT)	730,353.6836
Elevation (SFT)*	

Convergence Angle	-1	8	4.7155031
Scale Factor	0.999950554		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	16	24.7173348
Longitude	93	56	59.6281560
Ellipsoid Height (M):	104.005		
Geoid Height (M):	-29.789		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND STATE HIGHWAY 22, LOCATED IN BRANCH, GO SOUTH ON STATE HIGHWAY 41 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.40 METERS SOUTH OF THE CENTER OF STATE HIGHWYA 41, 7.00 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.37 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 518.771 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF CMP	16	2.95	9.7
MK # 2	GATE POST	141	7.90	25.9
MK # 3	NONE			

AZ Mark Station	240008
Geodetic Azimuth	90 50 53
Grid Azimuth	91 58 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS 2
Ref Mon # 2	OZARPORT
Ref Mon # 3	420006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240009	11/17/2004	AHTD	FRANKLIN	23	040815

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,365.4927	0.0020
Easting (M)	234,379.5335	0.0020
Elevation (M)*	230.375	
Northing (SFT)	486,762.4540	
Easting (SFT)	768,960.1862	
Elevation (SFT)*	755.822	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	39	24.4620900	
Longitude	93	49	45.1760052	
Ellipsoid Height (M):	201.764			0.0090
Geoid Height (M):	-28.602			0.0090

Convergence Angle	-1	3	51.9081754
Scale Factor	0.999936734		
Elevation Adjust. Factor	0.9999638480		
Combined Adjust. Factor	0.9999005842		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 23, IN OZARK, GO NORTH ON HIGHWAY 23 FOR 14.10 MILES TO THE STATION ON THE RIGHT, 0.70 MILES SOUTH OF TURNER BEND STORE, 45 METERS SOUTH SOUTHWEST OF A GRAVEL DRIVE, EAST SOUTHEAST 9.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST NORTHWEST 0.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240009 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	14" ELM TREE	52	17.80	58.4
MK # 2				
MK # 3				

AZ Mark Station	240009A
Geodetic Azimuth	220 04 27
Grid Azimuth	221 08 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

ELEVATIONS DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05. LAST STATIC POSITION IN JUNE OF 2020 BY S5112 FOR JOB #040815. ELEVATIONS FROM JOB #040441 MAINTAINED.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240009 SS	11/17/2004	AHTD	FRANKLIN	23	040441, 040621, 040815

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,365.4863	0.0030
Easting (M)	234,379.5217	0.0030
Elevation (M)*	230.375	
Northing (SFT)	486,762.4330	
Easting (SFT)	768,960.1474	
Elevation (SFT)*	755.822	

Convergence Angle	-1	3	51.9084456
Scale Factor			0.999936734
Elevation Adjust. Factor			0.9999638480
Combined Adjust. Factor			0.9999005842

Vertical Determined By:	3rd Order - 3 Wire Levels				
Elevation Datum:	NAVD 88				
Geoid Datum:	Geoid 12A				
Latitude	35	39	24.4618740		
Longitude	93	49	45.1764696		
Ellipsoid Height (M):				201.839	0.0070
Geoid Height (M):				-28.555	0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 23, IN OZARK, GO NORTH ON HIGHWAY 23 FOR 14.10 MILES TO THE STATION ON THE RIGHT, 0.70 MILES SOUTH OF TURNER BEND STORE, 45 METERS SOUTH SOUTHWEST OF A GRAVEL DRIVE, EAST SOUTHEAST 9.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST NORTHWEST 0.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240009 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	39	24.4622736
Longitude	93	49	45.1772616
Ellipsoid Height:	201.891		
Grid Northing (Meters)	148,365.4989		
Grid Easting (Meters)	234,379.5020		

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	14" ELM TREE	52	17.80	58.4
MK # 2				
MK # 3				

AZ Mark Station	240009A
Geodetic Azimuth	220 04 27
Grid Azimuth	221 08 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (SC)W H PHILLIPS
Ref Mon # 2	ARHR, (SC)GAYLOR
Ref Mon # 3	ARLR, (SC)OZARPORT

Comments

ELEVATIONS DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240009A	11/17/2004	AHTD	FRANKLIN	23	040441, 040621, 040815

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,059.5168	0.0030
Easting (M)	234,112.2467	0.0030
Elevation (M)*	224.926	
Northing (SFT)	485,758.5980	
Easting (SFT)	768,083.2627	
Elevation (SFT)*	737.946	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	39	14.3741556	
Longitude	93	49	55.5747060	
Ellipsoid Height (M):	196.303			0.0090
Geoid Height (M):	-28.612			0.0090

Convergence Angle	-1	3	57.9591703
Scale Factor	0.999936674		
Elevation Adjust. Factor	0.9999647029		
Combined Adjust. Factor	0.9999013792		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 23, IN OZARK, GO NORTH ON HIGHWAY 23 FOR 13.94 MILES TO THE STATION ON THE LEFT, WEST NORTHWEST 9.25 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST SOUTHEAST 0.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "240009A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	STEEL T POST	20	5.50	18.0
MK # 2	STEEL T POST	238	2.40	7.9
MK # 3				

AZ Mark Station	290004
Geodetic Azimuth	40 04 21
Grid Azimuth	41 08 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

ELEVATION DETERMINED BY 3 WIRE LEVELS USING NGS BENCH MARK W 92 BY CREW S5102 5/16/05. LAST STATIC POSITION IN JUNE OF 2020 BY S5112 FOR JOB #040815. ELEVATIONS FROM JOB #040441 MAINTAINED. SUPERCEDED POSITIONS WERE SOMEHOW LOST. PLEASE REFER TO JOB #'s 040441 & 040621 CONTROL FILES FOR THOSE OLD POSITIONS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240010	9/30/2013	AHTD	FRANKLIN	72	BR2404

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	134,658.7853	0.0040
Easting (M)	222,856.5008	0.0040
Elevation (M)*	212.675	
Northing (SFT)	441,793.0314	
Easting (SFT)	731,155.0364	
Elevation (SFT)*	697.752	

Convergence Angle	-1	8	12.1543715
Scale Factor	0.999936360		
Elevation Adjust. Factor	0.9999666254		
Combined Adjust. Factor	0.9999029875		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	31	52.5976932
Longitude	93	57	12.4119324
Ellipsoid Height (M):	183.551	0.0110	
Geoid Height (M):	-29.091	0.0110	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 352 AND STATE HIGHWAY 64, WEST OF OZARK, GO EAST ON HIGHWAY 64 1.7 MILES TO COUNTY ROAD 72 (PLEASANT VIEW ROAD) AND TURN LEFT (NORTH) AND GO 1.35 MILES TO THE MARK ON THE RIGHT, 172 FEET NORTH OF THE NORTH END OF THE BRIDGE OVER I 40, EAST 17 FEET OF THE CENTERLINE OF THE ROAD AND WEST 23.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 240010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF GUARD RAIL	307	13.11	43.0
MK # 2				
MK # 3				

AZ Mark Station	240010A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL5
Ref Mon # 2	CTA1
Ref Mon # 3	P777

Comments

Elevation based on Static Observation from NGS 1st Order BM P 296 to AHTD GPS #240010A & then 3rd Order Digital Levels from AHTD GPS #240010A to AHTD GPS #240010 by S5112 in Nov. 2013 for Job #BR2404.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240010A	9/30/2013	AHTD	FRANKLIN	72	BR2404

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	134,064.0304	0.0040
Easting (M)	222,818.3340	0.0040
Elevation (M)*		
Northing (SFT)	439,841.7397	
Easting (SFT)	731,029.8175	
Elevation (SFT)*		

Convergence Angle	-1	8	12.7632400
Scale Factor	0.999936451		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	31	33.2777028
Longitude	93	57	13.4582796
Ellipsoid Height (M):	157.226		0.0110
Geoid Height (M):	-29.111		0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 352 AND STATE HIGHWAY 64, WEST OF OZARK, GO EAST ON HIGHWAY 64 1.7 MILES TO COUNTY ROAD 72 (PLEASANT VIEW ROAD) AND TURN LEFT (NORTH) AND GO 1.0 MILE TO THE MARK ON THE LEFT, WEST 16.5 FEET OF THE CENTERLINE OF THE ROAD, SOUTH 11 FEET OF THE CENTER LINE OF A FIELD ROAD AND EAST 15.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 240010A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GATE POST WITH HINGE	301	123.70	405.8
MK # 2				
MK # 3				

AZ Mark Station	240010
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL5
Ref Mon # 2	CTA1
Ref Mon # 3	P777

Comments

Elevation based on Static Observation from NGS 1st Order BM P 296

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240011	7/9/2015	AHTD	FRANKLIN	23	040693, 012468

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,689.6022	0.0020
Easting (M)	236,037.9615	0.0020
Elevation (M)*	557.331	
Northing (SFT)	514,072.4699	
Easting (SFT)	774,401.2120	
Elevation (SFT)*	1,828.510	

Convergence Angle	-1	3	17.0913520
Scale Factor			0.999939253
Elevation Adjust. Factor			0.9999125443
Combined Adjust. Factor			0.9998518026

Vertical Determined By:	3rd Order - Digital Levels				
Elevation Datum:	NAVD 88				
Geoid Datum:	GEOID 18				
Latitude	35	43	55.5124440		
Longitude	93	48	45.3429144		
Ellipsoid Height (M):			529.049	0.0080	
Geoid Height (M):			-28.290	0.0080	

Location Description

TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 215 NORTH AND HIGHWAY 23, NORTH OF CASS, GO NORTH ON HIGHWAY 23 4.1 MILES TO THE MARK ON THE RIGHT, 11.0 FEET SOUTHWEST OF A WITNESS POST AND 35.4 FEET NORTHEAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240011.

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	43	55.5126204
Longitude	93	48	45.3430188
Ellipsoid Height:			529.105
Grid Northing (Meters)			156,689.6077
Grid Easting (Meters)			236,037.9590

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	R/W MARKER	331	23.60	77.4
MK # 2				
MK # 3				

AZ Mark Station	240011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (ARM3)
Ref Mon # 2	ARFS (CTA1)
Ref Mon # 3	ARRV (P777)

Comments

ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM Z 92 IN JULY 2015 FOR JOB #040693 (SLIDE AREA) ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*******USE WITH CAUTION, UNSTABLE AREA*******
**********SUPERCEDED GEOID 12A HT. WAS-28.2306m AND ELEV. WAS 1828.5248 US

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240011A	7/9/2015	AHTD	FRANKLIN	23	040693, 012468

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	157,009.1372	0.0020
Easting (M)	236,081.2208	0.0020
Elevation (M)*	551.549	

Northing (SFT)	515,120.8110	
Easting (SFT)	774,543.1386	
Elevation (SFT)*	1,809.542	

Convergence Angle	-1	3	16.2259414
Scale Factor			0.999939383
Elevation Adjust. Factor			0.9999134514
Combined Adjust. Factor			0.9998528397

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	44	5.9055216
Longitude	93	48	43.8557832
Ellipsoid Height:			523.334
Grid Northing (Meters)			157,009.1613
Grid Easting (Meters)			236,081.2191

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	44	5.9047404	
Longitude	93	48	43.8556968	
Ellipsoid Height (M):			523.276	0.0080
Geoid Height (M):			-28.277	0.0080

Location Description

TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 215 NORTH AND HIGHWAY 23, NORTH OF CASS, GO NORTH ON HIGHWAY 23 4.3 MILES TO THE MARK ON THE RIGHT, 6.2 FEET NORTHWEST OF A WITNESS POST AND 38.0 FEET SOUTHEAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240011A.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	65	98.00	321.5
MK # 2				
MK # 3				

AZ Mark Station	240011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (ARM3)
Ref Mon # 2	ARFS (CTA1)
Ref Mon # 3	ARRV (P777)

Comments

ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM Z 92 IN JULY 2015 FOR JOB #040693 (SLIDE AREA). ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*******USE WITH CAUTION, UNSTABLE AREA**********
**********SUPERCEDED GEOID 12A HT. WAS-28.2177m AND ELEV. WAS 1809.5478 US

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240012	7/9/2015	AHTD	FRANKLIN	23	040693

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	157,935.7582	0.0050
Easting (M)	236,154.2660	0.0050
Elevation (M)*		

Northing (SFT)	518,160.9000	
Easting (SFT)	774,782.7877	
Elevation (SFT)*		

Convergence Angle	-1	3	14.9294343
Scale Factor	0.999939777		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	35	44	36.0100644
Longitude	93	48	41.6276352
Ellipsoid Height (M):	516.810		0.0050
Geoid Height (M):	-28.180		0.0050

Location Description

TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 235 AND HIGHWAY 16,WEST OF ST. PAUL, GO SOUTH ON HIGHWAY 23 5.5 MILES TO THE MARK ON THE LEFT, 2.8 FEET EAST OF A WITNESS POST AND 35.0 FEET EAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240012.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PARK MESSAGE BOARD/ WEST END	20	43.70	143.4
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	CTA1
Ref Mon # 3	P777

Comments

**********USE WITH CAUTION, UNSTABLE AREA**********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240013	7/9/2015	AHTD	FRANKLIN	23	040693

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	158,086.0269	0.0050
Easting (M)	236,101.7337	0.0050
Elevation (M)*	545.150	
Northing (SFT)	518,653.9066	
Easting (SFT)	774,610.4380	
Elevation (SFT)*	1,788.545	

Convergence Angle	-1	3	16.2099411
Scale Factor	0.999939842		
Elevation Adjust. Factor	0.9999144556		
Combined Adjust. Factor	0.9998543027		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	44	40.8537564	
Longitude	93	48	43.8282000	
Ellipsoid Height (M):	516.975			0.0015
Geoid Height (M):	-28.175			0.0015

Location Description

TO REACH THE STATION, AT THE INTERSECTION OF HIGHWAY 235 AND HIGHWAY 16,WEST OF ST. PAUL, GO SOUTH ON HIGHWAY 23 5.4 MILES TO THE MARK ON THE LEFT, 13.0 FEET SOUTHWEST OF A WITNESS POST AND 14.6 FEET NORTHEAST OF THE CENTERLINE OF HIGHWAY 23, SET ON A 4.0 FOOT REBAR, DRIVEN BELOW THE SURFACE OF THE GROUND IS A 2 INCH ALUMINUM CAP STAMPED 240013.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	CTA1
Ref Mon # 3	P777

Comments

ELEV. BY S5112 USING DIGITAL LEVELS FROM 2ND ORDER NGS BM E 93 IN JULY 2015 FOR JOB #040693 (SLIDE AREA) ELEV. FROM DIGITAL LEVELS CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT (ELEV. DIFF. DUE ONLY TO ROUNDING ERROR).*******USE WITH CAUTION, UNSTABLE AREA*********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240014	5/9/2016	AHTD	FRANKLIN	23	001725_SLIDE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	133,193.9088	0.0030
Easting (M)	230,821.4786	0.0030
Elevation (M)*	169.496	
Northing (SFT)	436,987.0158	
Easting (SFT)	757,286.8010	
Elevation (SFT)*	556.087	

Convergence Angle	-1	5	7.5611746
Scale Factor			0.999936571
Elevation Adjust. Factor			0.9999734013
Combined Adjust. Factor			0.9999099740

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	31	10.0844112	
Longitude	93	51	55.1865096	
Ellipsoid Height (M):	140.406			0.0080
Geoid Height (M):	-29.088			0.0080

Location Description

TO REACH THE STA FROM JCT OF I-40 AND SR-23 (EXIT 35) N OF OZARK, GO S ON SR-23 0.15 MI TO STA ON RIGHT AT THE S END OF PAVED APRON, 26.5' W OF C/L. THE STA IS A 2 1/2" ALUM CAP STAMPED "240014 2016" SET ON TOP OF A 4' RBR AND DRIVEN BELLOW SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UC FOC	246	50.40	165.4
MK # 2	S END CB ISLAND	23	39.50	129.6
MK # 3				

AZ Mark Station	240014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARLR
Ref Mon # 3	ARHR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 92 BY S5112 IN MAY 2016 FOR SLIDE AREA ON I-40 WB. *COULD NOT GET CHECK BETWEEN TTS 24 H & S 92 BUT VERIFIED S 92 WAS GOOD BY CONSTRAINING ORTHOMETRIC HTS. ON ARFY, ARHR & ARLR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240014A	5/9/2016	AHTD	FRANKLIN	23	001725_SLIDE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	133,697.5531	0.0030
Easting (M)	230,901.0196	0.0030
Elevation (M)*	160.747	
Northing (SFT)	438,639.3888	
Easting (SFT)	757,547.7618	
Elevation (SFT)*	527.385	

Convergence Angle	-1	5	5.9446937
Scale Factor	0.999936485		
Elevation Adjust. Factor	0.9999747741		
Combined Adjust. Factor	0.9999112607		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	31	26.4731484
Longitude	93	51	52.4085696
Ellipsoid Height (M):	131.670	0.0080	
Geoid Height (M):	-29.072	0.0080	

Location Description

TO REACH THE STA FROM JCT OF I-40 AND SR-23 (EXIT 35) N OF OZARK, GO N ON SR-23 0.15 MI TO STA ON RIGHT, 42'E OF C/L. THE STA IS A 2 1/2" ALUM CAP STAMPED "240014A 2016" SET ON TOP OF A 4' RBR AND DRIVEN BELLOW SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S END 18" RCP	353	31.00	101.7
MK # 2	FH	60	47.00	154.2
MK # 3	NW COR. BLOCK BU	88	52.50	172.2

AZ Mark Station	240014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARLR
Ref Mon # 3	ARHR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 92 BY S5112 IN MAY 2016 FOR SLIDE AREA ON I-40 WB. *COULD NOT GET CHECK BETWEEN TTS 24 H & S 92 BUT VERIFIED S 92 WAS GOOD BY CONSTRAINING ORTHOMETRIC HTS. ON ARFY, ARHR & ARLR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240015	1/6/2020	ARDOT	FRANKLIN	IRE ROA	BR7615

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	134,770.1569	0.0030
Easting (M)	215,465.9152	0.0030
Elevation (M)*		
Northing (SFT)	442,158.4231	
Easting (SFT)	706,907.7568	
Elevation (SFT)*		

Convergence Angle	-1	11	2.8882471
Scale Factor	0.999936366		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	31	51.3541200
Longitude	94	2	5.8199604
Ellipsoid Height (M):	94.268	0.0120	
Geoid Height (M):	-29.147	0.0120	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40, NORTH OF MULBERRY, GO NORTH ON HIGHWAY 215 0.15 MILES TO WIRE ROAD AND TURN RIGHT (EAST) AND GO 0.75 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF THE ROAD 20'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240015" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	90	30.48	100.0
MK # 2				
MK # 3				

AZ Mark Station	240015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240015A	1/6/2020	ARDOT	FRANKLIN	IRE ROA	BR7615

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	134,764.2242	0.0030
Easting (M)	215,954.1777	0.0030
Elevation (M)*	128.444	

Northing (SFT)	442,138.9589	
Easting (SFT)	708,509.6647	
Elevation (SFT)*	421.402	

Convergence Angle	-1	10	51.6093585
Scale Factor	0.999936365		
Elevation Adjust. Factor	0.9999798434		
Combined Adjust. Factor	0.9999162097		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	31	51.4886340
Longitude	94	1	46.4370672
Ellipsoid Height (M):	99.297	0.0120	
Geoid Height (M):	-29.143	0.0120	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 215 AND I 40, NORTH OF MULBERRY, GO NORTH ON HIGHWAY 215 0.15 MILES TO WIRE ROAD AND TURN RIGHT (EAST) AND GO 1.0 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF THE ROAD 18.5'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240015A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	99	15.85	52.0
MK # 2				
MK # 3				

AZ Mark Station	240015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEVATION BASED ON DIGITAL LEVELS FROM ARDOT GPS POINT #240015 WHICH IS BASED ON GNSS STATIC DERIVED ELEVATION CONSTRAINING ARDOT CORS SITES ARFS, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240016	1/9/2020	ARDOT	FRANKLIN	186	040780

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,934.9202	0.0020
Easting (M)	240,085.1481	0.0020
Elevation (M)*		
Northing (SFT)	409,890.6507	
Easting (SFT)	787,679.3567	
Elevation (SFT)*		

Convergence Angle	-1	1	30.2302882
Scale Factor	0.999938807		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 18	
Latitude	35 26 47.6679408	
Longitude	93 45 41.7010104	
Ellipsoid Height (M):	135.677	0.0090
Geoid Height (M):	-29.335	0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 186 AND 64, IN ALTUS, GO WEST ON HIGHWAY 64 131' TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 28'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	134	16.61	54.5
MK # 2				
MK # 3				

AZ Mark Station	240016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240016A	1/9/2020	ARDOT	FRANKLIN	186	040780

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,976.2144	0.0020
Easting (M)	240,513.8293	0.0020
Elevation (M)*		

Northing (SFT)	410,026.1301	
Easting (SFT)	789,085.7883	
Elevation (SFT)*		

Convergence Angle	-1	1	20.3570498
Scale Factor			0.999938789
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	26	49.2562212
Longitude	93	45	24.7337424
Ellipsoid Height (M):	130.893		0.0090
Geoid Height (M):	-29.331		0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 186 AND 64, IN ALTUS, GO EAST ON HIGHWAY 64 0.25 MILES' TO THE MARK ON THE LEFT, NORTH OF THE C/L OF THE HIGHWAY 29.4' AND 76' WEST OF MT. BETHEL DR. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	240016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240017	5/18/2020	ARDOT	FRANKLIN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,732.6446	0.0030
Easting (M)	212,855.9937	0.0030
Elevation (M)*		

Northing (SFT)	356,733.6848	
Easting (SFT)	698,345.0393	
Elevation (SFT)*		

Convergence Angle	-1	11	50.5938182
Scale Factor			0.999948535
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	17	44.8723968
Longitude	94	3	27.8025048
Ellipsoid Height (M):	114.097		0.0070
Geoid Height (M):	-29.960		0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 217 AND STATE HIGHWAY 22, IN CHARLESTON, GO WEST ON HIGHWAY 22 1.05 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 28.4". THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	END OF GUARD RAIL	340	2.38	7.8
MK # 2	COMBINATION POLE W/GUY	202	12.19	40.0
MK # 3	CENTER OF GATE	142	10.49	34.4

AZ Mark Station	240017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY,ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240017A	5/18/2020	ARDOT	FRANKLIN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,874.0803	0.0030
Easting (M)	213,317.1874	0.0030
Elevation (M)*		
Northing (SFT)	357,197.7118	
Easting (SFT)	699,858.1390	
Elevation (SFT)*		

Convergence Angle	-1	11	40.0418694
Scale Factor	0.999948416		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	17	49.7733216
Longitude	94	3	9.6688656
Ellipsoid Height (M):	116.410	0.0070	
Geoid Height (M):	-29.951	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 217 AND STATE HIGHWAY 22, IN CHARLESTON, GO WEST ON HIGHWAY 22 0.75 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 50' AND 22.1' EAST OF THE C/L OF PARKS DRIVE.'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 240017A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ LIGHT	323	21.90	71.9
MK # 2	FENCE CORNER	278	48.50	159.1
MK # 3				

AZ Mark Station	240017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240018	6/10/2020	ARDOT	FRANKLIN	23	040815

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	137,658.5406	0.0020
Easting (M)	231,096.3662	0.0020
Elevation (M)*		
Northing (SFT)	451,634.7286	
Easting (SFT)	758,188.6614	
Elevation (SFT)*		

Convergence Angle	-1	5	3.1646692
Scale Factor			0.999936026
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	33	35.1000396
Longitude	93	51	47.6310672
Ellipsoid Height (M):	132.852		0.0060
Geoid Height (M):	-28.985		0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 352E, NORTH OF OZARK, GO NORTH ON HIGHWAY 23 1.05 MILES TO THE MARK ON THE RIGHT, 31.4' EAST OF THE C/L OF THE HIGHWAY AND 10.5' NORTH OF THE C/L OF A PRIVATE DRIVEWAY. THE MARK IS 2" CAP STAMPED "2020 240018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	51	4.18	13.7
MK # 2	FENCE CORNER	136	7.89	25.9
MK # 3				

AZ Mark Station	240018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240018A	6/10/2020	ARDOT	FRANKLIN	23	040815

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	138,065.5968	0.0020
Easting (M)	231,129.0668	0.0020
Elevation (M)*		
Northing (SFT)	452,970.2122	
Easting (SFT)	758,295.9467	
Elevation (SFT)*		

Convergence Angle	-1	5	2.5871311
Scale Factor	0.999936001		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	33	48.3262632	
Longitude	93	51	46.6385616	
Ellipsoid Height (M):	143.139			0.0060
Geoid Height (M):	-28.970			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 352E, NORTH OF OZARK, GO NORTH ON HIGHWAY 23 1.25 MILES TO THE MARK ON THE LEFT, 55.8' WEST OF THE C/L OF THE HIGHWAY AND 156.6' NORTH OF THE C/L OF MATTOX ROAD. THE MARK IS 2 1/2" CAP STAMPED "2020 240018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS VENT PIPE	64	13.32	43.7
MK # 2				
MK # 3				

AZ Mark Station	240018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240019	11/9/2021	ARDOT	Franklin	64	040868

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	129,474.1094	0.0010
Easting (M)	235,171.9648	0.0010
Elevation (M)*	117.446	
Northing (SFT)	424,782.9739	
Easting (SFT)	771,560.0212	
Elevation (SFT)*	385.320	

Convergence Angle	-1	3	25.5149906
Scale Factor	0.999937378		
Elevation Adjust. Factor	0.9999815693		
Combined Adjust. Factor	0.9999189484		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	29	12.0404796
Longitude	93	48	59.8190292
Ellipsoid Height (M):	88.215	0.0060	
Geoid Height (M):	-29.232	0.0060	

Location Description

To reach from the junction of Hwy 64 and Hwy 23 in Ozark. Go East on Hwy 64 for 0.8 miles to the station on the left. The station is 33.7 ft West of a powerpole, 29.2 ft Northwest of a SS manhole, 92.5 ft North of the centerline of Hwy 64. The station mark is a 2 1/2 in. cap stamped "240019 2021" set ontop of a 5/8 in. by 4 ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Firehydrant	131	9.88	32.4
MK # 2	Powerpole	93	28.35	93.0
MK # 3				

AZ Mark Station	240019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240019A	11/9/2021	ARDOT	Franklin	64	040868

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	129,431.3206	0.0010
Easting (M)	234,683.4212	0.0010
Elevation (M)*	115.847	
Northing (SFT)	424,642.5910	
Easting (SFT)	769,957.1911	
Elevation (SFT)*	380.074	

Convergence Angle	-1	3	36.7735321
Scale Factor	0.999937392		
Elevation Adjust. Factor	0.9999818202		
Combined Adjust. Factor	0.9999192133		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	29	10.3593588
Longitude	93	49	19.1669556
Ellipsoid Height (M):	86.607	0.0060	
Geoid Height (M):	-29.238	0.0060	

Location Description

To reach from the junction of Hwy 64 and Hwy 23 in Ozark. Go East on Hwy 64 for 0.5 miles to the station on the right. The station is 7 ft. East of a witness post, 50 ft. South of the center of Hwy 64, and 54.1 ft. Northwest of a lightpole. The station mark is a 2 1/2 in. cap stamped "240019A 2021" set ontop of a 5/8 in. by 4 ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Lightpole	49	10.76	35.3
MK # 2	Rock Pillar	279	35.48	116.4
MK # 3				

AZ Mark Station	240019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS PUBLISHED 1ST ORDER BM N 296 FOR JOB #040868.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240020	5/23/2023	ARDOT	FRANKLIN	23	012468

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	154,473.3855	0.0020
Easting (M)	237,173.0096	0.0020
Elevation (M)*	515.574	

Northing (SFT)	506,801.4323	
Easting (SFT)	778,125.1157	
Elevation (SFT)*	1,691.511	

Convergence Angle	-1	2	49.8734426
Scale Factor	0.999938424		
Elevation Adjust. Factor	0.9999190962		
Combined Adjust. Factor	0.9998575252		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	42	44.2884816
Longitude	93	47	58.5686400
Ellipsoid Height (M):	487.196		0.0080
Geoid Height (M):	-28.378		0.0080

Location Description

TO REACH FROM THE JCT. OF HWY 23 AND HWY 215 IN CASS, HEAD NORTH ON HWY 23 FOR 2.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23.0FT E OF THE CENTER LINE OF HWY 23, AND 42.5FT NORTH OF THE CENTER LINE OF THE DW FOR MULBERRY MOUNTAIN LODGING AND EVENTS. THE STATION MARK IS A 2 1/2IN CAP STAMPED "240020 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	ROCK PILLAR	351	43.30	142.1
MK # 2				
MK # 3				

AZ Mark Station	240020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARFS
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS PUBLISHED BMs Y 92 AND Z 92 BY S5103 IN JUNE 2023 FOR SLIDE REPAIR JOB #012468

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
240020A	5/23/2023	ARDOT	FRANKLIN	23	012468

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	154,140.5081	0.0020
Easting (M)	237,035.2590	0.0020
Elevation (M)*	499.073	

Northing (SFT)	505,709.3170	
Easting (SFT)	777,673.1789	
Elevation (SFT)*	1,637.376	

Convergence Angle	-1	2	52.9210636
Scale Factor	0.999938308		
Elevation Adjust. Factor	0.9999216853		
Combined Adjust. Factor	0.9998599981		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	42	33.4073664
Longitude	93	48	3.8060100
Ellipsoid Height (M):	470.699		0.0080
Geoid Height (M):	-28.392		0.0080

Location Description

TO REACH FROM THE JCT. OF HWY 23 AND HWY 215 IN CASS, HEAD NORTH ON HWY 23 FOR 2.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.0FT E OF THE CENTER LINE OF HWY 23, 51.9FT NORTH OF THE CENTER LINE OF A GRAVEL DRIVE WAY, AND 29.5FT WEST OF A SPLIT RAIL FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "240020A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	240020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARFS
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS PUBLISHED BMs Y 92 AND Z 92 BY S5103 IN JUNE 2023 FOR SLIDE REPAIR JOB #012468

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250001	1/11/1998	AHTD	FULTON	342	050063,050230,050503

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	237,565.1288	0.0010
Easting (M)	443,071.8005	0.0010
Elevation (M)*	184.390	
Northing (SFT)	779,411.5934	
Easting (SFT)	1,453,644.7321	
Elevation (SFT)*	604.952	

Convergence Angle	0	16	46.7192193
Scale Factor			1.000056343
Elevation Adjust. Factor			0.9999710641
Combined Adjust. Factor			1.0000274055

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	36	28	25.0225464
Longitude	91	31	9.9426720
Ellipsoid Height:			155.974
Grid Northing (Meters)			237,565.0751
Grid Easting (Meters)			443,071.7850

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	28	25.0242852	
Longitude	91	31	9.9420384	
Ellipsoid Height (M):			155.828	0.0080
Geoid Height (M):			-28.525	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 342, LOCATED ABOUT 3.48 KM (2.16 MI) SOUTH OF THE ARKANSAS/ MISSOURI STATE LINE AT MAMMOTH SPRINGS, GO SOUTH ON STATE HIGHWAY 342 FOR 0.08 KM (0.05 MI) TO A GRAVEL DRIVEWAY AND THE STATION ON THE LEFT. THE STATION IS 14.649 METERS EAST OF THE CENTER OF STATE HIGHWAY 342, 7.396 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250001 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE GATE POST	183	2.76	9.0
MK # 2	IRON PIPE GATE POST	213	11.58	38.0
MK # 3	NORTH END CMP	290	5.57	18.3

AZ Mark Station	250001
Geodetic Azimuth	108 50 34.12302
Grid Azimuth	108 33 47.49091

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	OR-01
Ref Mon # 3	Q 313

Comments

Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250001A	1/11/1998	AHTD	FULTON	63	050063,050230,050503

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	237,449.3133	0.0010
Easting (M)	443,416.5608	0.0010
Elevation (M)*	190.874	

Northing (SFT)	779,031.6221	
Easting (SFT)	1,454,775.8332	
Elevation (SFT)*	626.225	

Convergence Angle	0	16	54.7638705
Scale Factor	1.000056056		
Elevation Adjust. Factor	0.9999700466		
Combined Adjust. Factor	1.0000261009		

SUPERCEDED CONTROL

Horizontal Datum	NAD83 (1997)		
Latitude	36	28	21.2120148
Longitude	91	30	56.1180960
Ellipsoid Height:	162.485		
Grid Northing (Meters)	237,449.2992		
Grid Easting (Meters)	443,416.5390		

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	28	21.2124684	
Longitude	91	30	56.1172176	
Ellipsoid Height (M):	162.311			0.0080
Geoid Height (M):	-28.522			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 342, LOCATED ABOUT 3.48 KM (2.16 MI) SOUTH OF THE ARKANSAS/ MISSOURI STATE LINE AT MAMMOTH SPRINGS, GO EAST ON U.S. HIGHWAY 63 FOR 0.36 KM (0.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.10 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250001A 1999" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	271	20.70	67.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	250001
Geodetic Azimuth	288 50 42.34097
Grid Azimuth	288 33 47.49091

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	OR-01
Ref Mon # 3	Q 313

Comments

Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250002	1/11/1998	AHTD	FULTON	63	012157,050063

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	235,774.6246
Easting (M)	445,248.0152
Elevation (M)*	
Northing (SFT)	773,537.2475
Easting (SFT)	1,460,784.5299
Elevation (SFT)*	

Convergence Angle	0	17	37.3685871
Scale Factor			1.000051980
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	36	27	26.5875948
Longitude	91	29	42.9005472
Ellipsoid Height (M):	182.889		
Geoid Height (M):	-28.491		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 342, LOCATED ABOUT 3.48 KM (2.16 MI) SOUTH OF THE ARKANSAS/ MISSOURI STATE LINE AT MAMMOTH SPRINGS, GO SOUTH ON U.S. HIGHWAY 63 FOR 3.22 KM (2.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 49.168 METERS SOUTH OF THE CENTER OF A PAVED ROAD LEADING TO WIRTH, 13.728 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	27	26.5870944
Longitude	91	29	42.9009972
Ellipsoid Height:	182.996		
Grid Northing (Meters)	235,774.6091		
Grid Easting (Meters)	445,248.0040		

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	359	29.46	96.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	250002A
Geodetic Azimuth	171 04 48.69138
Grid Azimuth	170 47 11.33925

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	OR-01
Ref Mon # 3	Q 313

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM Q 308.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250002A	1/11/1998	AHTD	FULTON	63	050063

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	235,357.6392	
Easting (M)	445,315.6390	
Elevation (M)*	218.810	
Northing (SFT)	772,169.1879	
Easting (SFT)	1,461,006.3923	
Elevation (SFT)*	717.879	

Convergence Angle	0	17	38.8987901
Scale Factor	1.000050981		
Elevation Adjust. Factor	0.9999656628		
Combined Adjust. Factor	1.0000166420		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	27	13.0493988
Longitude	91	29	40.2708768
Ellipsoid Height (M):	190.434		
Geoid Height (M):	-28.388		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 342, LOCATED ABOUT 3.48 KM (2.16 MI) SOUTH OF THE ARKANSAS/ MISSOURI STATE LINE AT MAMMOTH SPRINGS, GO SOUTH ON U.S. HIGHWAY 63 FOR 3.64 KM (2.26 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.60 METERS NORTH OF THE CENTER OF A GRAVEL ROAD, 13.10 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CMP	303	4.85	15.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	250002
Geodetic Azimuth	351 04 50.25421
Grid Azimuth	350 47 11.33925

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	OR-01
Ref Mon # 3	Q 313

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250003	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,440.0092	
Easting (M)	419,262.0095	
Elevation (M)*	200.025	
Northing (SFT)	736,350.2635	
Easting (SFT)	1,375,528.7762	
Elevation (SFT)*	656.249	

Convergence Angle	0	7	29.5461081
Scale Factor	1.000026579		
Elevation Adjust. Factor	0.9999686105		
Combined Adjust. Factor	0.9999951887		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	21.9634632
Longitude	91	47	7.4501088
Ellipsoid Height (M):	171.809		
Geoid Height (M):	-28.216		

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 20.841 KM (12.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.60 METERS WEST OF THE CENTER LINE OF A PAVED DRIVE, 19.80 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.78 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 250003 2001" SET ON TOP OF AN IRON ROD 1.00 METER LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL, RUN BY CREW S5103 FROM USC&GS BENCH MARK B 40. THE SHOT DISTANCE IS 539.436 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END CONCRETE HEADWALL	249	23.20	76.1
MK # 2	TREATED WOODEN CORNER POST	76	6.20	20.3
MK # 3	BRICK GATE POST	90	21.00	68.9

AZ Mark Station	250003A
Geodetic Azimuth	273 07 59.52441
Grid Azimuth	273 00 29.86052

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250003A	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	224,468.3191	
Easting (M)	418,723.3169	
Elevation (M)*	200.105	
Northing (SFT)	736,443.1436	
Easting (SFT)	1,373,761.4155	
Elevation (SFT)*	656.511	

Convergence Angle	0	7	16.9752790
Scale Factor	1.000026642		
Elevation Adjust. Factor	0.9999685980		
Combined Adjust. Factor	0.9999952392		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	22.9194360
Longitude	91	47	29.0532156
Ellipsoid Height (M):	171.892		
Geoid Height (M):	-28.212		

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 21.388 KM (13.29MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.52 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250003A 2001" SET ON TOP OF AN IRONROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK B 40. THE SHOT DISTANCE IS 539.436 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	75	6.30	20.7
MK # 2	0.35 METER DIAMETER CEDAR FENCE POS T	276	16.20	53.1
MK # 3	POWER POLE	278	19.00	62.3

AZ Mark Station	250003
Geodetic Azimuth	93 07 46.718000
Grid Azimuth	93 00 29.860517

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250004	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	219,543.1658	
Easting (M)	421,022.3206	
Elevation (M)*	244.311	
Northing (SFT)	720,284.5365	
Easting (SFT)	1,381,304.0635	
Elevation (SFT)*	801.544	

Convergence Angle	0	8	10.3572631
Scale Factor	1.000016488		
Elevation Adjust. Factor	0.9999616611		
Combined Adjust. Factor	0.9999781485		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	42.9708312
Longitude	91	45	57.3156936
Ellipsoid Height (M):	216.180		
Geoid Height (M):	-28.131		

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 15.160 KM (9.42MI). TO THE STATION ON THE RIGHT. THE STATION IS 27.00 METERS EAST OF THE CENTER LINE OF A GRAVEL DRIVE, 18.40 METERS WEST OF THE CENTER LINE OF A GRAVEL DRIVE, 10.90 METERS NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.50 METERS SOUTHWEST OF A WITNESS POST .THE STATION MARK IS A STANDARD 64mm CAP STAMPED ' 250004 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK D 40 RESET. THE SHOT DISTANCE IS 612.448.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORRIGATED METAL PIPE	146	15.20	49.9
MK # 2	LIGHT POLE	95	25.25	82.8
MK # 3	NONE			

AZ Mark Station	250004A
Geodetic Azimuth	147 03 28.01374
Grid Azimuth	146 55 17.72496

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250004A	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	219,029.9888	
Easting (M)	421,356.5810	
Elevation (M)*	247.655	
Northing (SFT)	718,600.8883	
Easting (SFT)	1,382,400.7162	
Elevation (SFT)*	812.515	

Convergence Angle	0	8	18.1251340
Scale Factor	1.000015464		
Elevation Adjust. Factor	0.9999611364		
Combined Adjust. Factor	0.9999765998		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	26.2962936
Longitude	91	45	43.9665228
Ellipsoid Height (M):	219.532		
Geoid Height (M):	-28.123		

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 14.548 KM (9.04 MI) . TO THE STATION ON THE RIGHT. THE STATION IS 18.35 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.41 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 250004A 2001 SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK D 40 RESET. THE SHOT DISTANCE IS 612.448 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	329	4.20	13.8
MK # 2	CROSS TIE CORNER POST	328	25.00	82.0
MK # 3	EAST END CORRIGATED METAL PIPE	311	34.90	114.5

AZ Mark Station	250004
Geodetic Azimuth	327 03 35.91843
Grid Azimuth	326 55 17.72496

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250005	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	216,722.6222	
Easting (M)	425,283.3351	
Elevation (M)*	223.926	
Northing (SFT)	711,030.8030	
Easting (SFT)	1,395,283.7419	
Elevation (SFT)*	734.664	

Convergence Angle	0	9	49.5592409
Scale Factor	1.000010929		
Elevation Adjust. Factor	0.9999648599		
Combined Adjust. Factor	0.9999757886		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	11.1042096
Longitude	91	43	6.8360124
Ellipsoid Height (M):	195.829		
Geoid Height (M):	-28.097		

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 9.817 KM (6.1MI),TO THE STATION ON THE RIGHT. THE STATION IS 16.45 METERS NORTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412, AND 1.020 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250005 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK F 40 RESET. THE SHOT DISTANCE IS 578.317 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	250005A
Geodetic Azimuth	275 51 26.12247
Grid Azimuth	275 41 36.44883

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250005A	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	216,779.9935	
Easting (M)	424,707.8843	
Elevation (M)*	221.823	
Northing (SFT)	711,219.0287	
Easting (SFT)	1,393,395.7837	
Elevation (SFT)*	727.764	

Convergence Angle	0	9	36.1446326
Scale Factor	1.000011043		
Elevation Adjust. Factor	0.9999651899		
Combined Adjust. Factor	0.9999762326		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	13.0182252
Longitude	91	43	29.8891632
Ellipsoid Height (M):	193.727		
Geoid Height (M):	-28.096		

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 10.396 KM (6.46MI), TO THE STATION ON THE LEFT. THE STATION IS 17.00 METER SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412, 9.00 METERS EAST OF THE CENTER LINE OF A PASTURE ENTRANCE, AND 1.45 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250005A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK F 40 RESET. THE SHOT DISTANCE IS 578.317 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	119	5.05	16.6
MK # 2	EAST GATE POST	252	5.60	18.4
MK # 3	NONE			

AZ Mark Station	250005
Geodetic Azimuth	95 51 12.479021
Grid Azimuth	95 41 36.448825

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250006	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	214,578.9769
Easting (M)	429,620.0213
Elevation (M)*	255.363
Northing (SFT)	703,997.8600
Easting (SFT)	1,409,511.6865
Elevation (SFT)*	837.803
Convergence Angle	0 11 30.5144695
Scale Factor	1.000006828
Elevation Adjust. Factor	0.9999599268
Combined Adjust. Factor	0.9999667546

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 16 1.1224884
Longitude	91 40 13.3433508
Ellipsoid Height (M):	227.283
Geoid Height (M):	-28.079

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 4.957 KM (3.08 MI) TO THE STATION ON LEFT. THE STATION IS 15.06 METERS SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250006 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK K 40 RESET. THE SHOT DISTANCE IS 427.792.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	272	25.50	83.7
MK # 2	BENCH MARK K 40 RESET 1955	279	33.70	110.6
MK # 3	NONE			

AZ Mark Station	250006A
Geodetic Azimuth	292 24 59.04997
Grid Azimuth	292 13 28.45900

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250006A	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,740.7796	
Easting (M)	429,224.0213	
Elevation (M)*	251.524	
Northing (SFT)	704,528.7077	
Easting (SFT)	1,408,212.4765	
Elevation (SFT)*	825.208	

Convergence Angle	0	11	21.2952768
Scale Factor	1.000007134		
Elevation Adjust. Factor	0.9999605292		
Combined Adjust. Factor	0.9999676630		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	16	6.4145064
Longitude	91	40	29.1866340
Ellipsoid Height (M):	223.444		
Geoid Height (M):	-28.079		

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 5.375 KM (3.34 MI), TO THE STATION ON THE LEFT. THE STATION IS 17.30 METERS SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 62/412, 6.50 METERS WEST OF PASTURE ENTRANCE AND 1.85 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "250006A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK K 40 RESET. THE SHOT DISTANCE IS 427.792.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END CORRIGATED METAL PIPE	25	9.05	29.7
MK # 2	POWER POLE	146	15.70	51.5
MK # 3	WESTERN BRACE POST	267	3.85	12.6

AZ Mark Station	250006
Geodetic Azimuth	112 24 49.67773
Grid Azimuth	112 13 28.45900

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250007	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	213,328.7246	
Easting (M)	433,811.8820	
Elevation (M)*	221.232	
Northing (SFT)	699,895.9906	
Easting (SFT)	1,423,264.4829	
Elevation (SFT)*	725.825	

Convergence Angle	0	13	8.1246415
Scale Factor	1.000004476		
Elevation Adjust. Factor	0.9999652827		
Combined Adjust. Factor	0.9999697585		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	20.0735928
Longitude	91	37	25.5992052
Ellipsoid Height (M):	193.133		
Geoid Height (M):	-28.099		

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 0.515 KM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METER NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 1.34 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 250007 2001" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVE FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK H 167. THE SHOT DISTANCE IS 576.457 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	250007A
Geodetic Azimuth	311 19 20.18991
Grid Azimuth	311 06 11.98285

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250007A	6/7/2001	AHTD	FULTON	62	050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	213,707.6912	
Easting (M)	433,377.5154	
Elevation (M)*	219.398	
Northing (SFT)	701,139.3169	
Easting (SFT)	1,421,839.3984	
Elevation (SFT)*	719.808	

Convergence Angle	0	12	58.0333620	
Scale Factor	1.000005180			
Elevation Adjust. Factor	0.9999655705			
Combined Adjust. Factor	0.9999707503			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	15	32.4217656	
Longitude	91	37	42.9411792	
Ellipsoid Height (M):	191.297			
Geoid Height (M):	-28.101			

Location Description

TO REACH THE STATION FROM THE FULTON/SHARP COUNTY LINE LOCATED NORTHWEST OF ASH FLAT ON U.S. HIGHWAY 62/412 GO WEST ON U.S. HIGHWAY 62/412 FOR 1.078 KM (0.67 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.40 METERS EAST OF THE CENTER LINE OF STATE HIGHWAY 289 NORTH, 16.00 METERS NORTHEAST OF THE CENTER LINE OF U.S. HIGHWAY 62/412 AND 2.10 METERS SOUTHWEST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 250007A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE ELEVATION WAS ARRIVED AT BY 3 WIRE LEVEL RUN BY CREW S5103 FROM USC&GS BENCH MARK H 167. THE SHOT DISTANCE IS 576.457 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	BRACE POST	11	3.80	12.5
MK # 2	BRACE POST	78	3.45	11.3
MK # 3	NONE			

AZ Mark Station	250007
Geodetic Azimuth	131 19 09.93365
Grid Azimuth	131 06 11.98285

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	330001
Ref Mon # 3	CHERPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250008	1/10/2003	AHTD	FULTON	62	050142

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	228,163.6121	
Easting (M)	391,295.6230	
Elevation (M)*	247.953	
Northing (SFT)	748,566.7840	
Easting (SFT)	1,283,775.7231	
Elevation (SFT)*	813.491	

Convergence Angle	0	3	23.2328500
Scale Factor	1.000034683		
Elevation Adjust. Factor	0.9999610897		
Combined Adjust. Factor	0.9999957713		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	23.3041884
Longitude	92	5	49.2578700
Ellipsoid Height (M):	219.719		
Geoid Height (M):	-28.221		

Location Description

TO REACH FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND STATE HIGHWAY 223, IN VIOLA , GO WEST ON HIGHWAY 62 6.8 MILES TO THE STATION ON THE RIGHT. 11.75 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH EAST OF A WITNESS POST. A STANDARD 64mm CAP STAMPED "250008 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	10" HICKORY	217	17.60	57.7
MK # 2				
MK # 3				

AZ Mark Station	250008A
Geodetic Azimuth	171 06 19
Grid Azimuth	171 09 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR1
Ref Mon # 2	AHTD HAR1
Ref Mon # 3	BUTLER

Comments

ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250008A	1/10/2003	AHTD	FULTON	N/A	050142

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	227,566.1450	
Easting (M)	391,388.5240	
Elevation (M)*	250.748	
Northing (SFT)	746,606.5941	
Easting (SFT)	1,284,080.5158	
Elevation (SFT)*	822.663	

Convergence Angle	0	3	21.0501683
Scale Factor			1.000033365
Elevation Adjust. Factor			0.9999606510
Combined Adjust. Factor			0.9999940147

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	23	3.9245964	
Longitude	92	5	45.5069076	
Ellipsoid Height (M):	222.506			
Geoid Height (M):	-28.212			

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF U.S. STATE HIGHWAY 62 AND 412, IN VIOLA, GO WEST ON HIGHWAY 62 6.7 MILES TO A GRAVEL DRIVE NAMED "TREE MAN LN" AND TURN LEFT (SOUTH) AND GO 0.40 MILES TO THE STATION ON THE RIGHT. 4.80 METERS WEST OF THE GRAVEL DRIVE AND 0.77 METERS EAST OF A WITNESS POST, AND 1.05 EAST OF A 4 BARBWIRE FENCE. THE STATION IS A STANDARD 64mm CAP STAMPED "250008A 2003" ON TOP OF A 0.42 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN GATE POST	195	5.10	16.7
MK # 2	WOODEN GATE POST	139	12.50	41.0
MK # 3				

AZ Mark Station	250008
Geodetic Azimuth	351 06 22
Grid Azimuth	351 09 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR1
Ref Mon # 2	AHTD HAR1
Ref Mon # 3	BUTLER

Comments

ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250009	1/10/2003	AHTD	FULTON	62	050142, 050422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	229,021.6398	0.0030
Easting (M)	397,674.1220	0.0030
Elevation (M)*	278.855	
Northing (SFT)	751,381.8299	
Easting (SFT)	1,304,702.5153	
Elevation (SFT)*	914.877	

Convergence Angle	0	0	54.3107069
Scale Factor			1.000036600
Elevation Adjust. Factor			0.9999562405
Combined Adjust. Factor			0.9999928389

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	23	51.2681748
Longitude	92	1	33.3326208
Ellipsoid Height:			250.516
Grid Northing (Meters)			229,021.6221
Grid Easting (Meters)			397,674.1450

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	23	51.2687508
Longitude	92	1	33.3335424
Ellipsoid Height (M):			250.560 0.0001
Geoid Height (M):			-28.295 0.0001

Location Description

TO REACH STATION FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND 223 IN VIOLA, GO WEST ON HIGHWAY 62 2.6 MILES TO THE STATION ON THE LEFT 9.8 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 1.20 METERS NORTH OF A FENCE AND 1.10 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250009 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	105	17.80	58.4
MK # 2	WOODEN FENCE POST	269	5.25	17.2
MK # 3				

AZ Mark Station	250009A
Geodetic Azimuth	92 46 42
Grid Azimuth	92 47 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARHR (AHTD PAR1)
Ref Mon # 2	ARJB, ARM3 (AHTD HAR1)
Ref Mon # 3	MOAT (BUTLER)

Comments

ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38 IN 2020 FOR JOB #050422. LEVELED ELEV. FROM R 38 HELD AS CONSTRAINT IN FINAL NETWORK ADJUSTMENT. ***NOTE SUPERCEDED GEOID HEIGHT -28.218

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250009A	1/10/2003	AHTD	FULTON	62	050142, 050422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	228,997.2957	0.0030
Easting (M)	398,172.7496	0.0030
Elevation (M)*	256.099	

Northing (SFT)	751,301.9610	
Easting (SFT)	1,306,338.4293	
Elevation (SFT)*	840.217	

Convergence Angle	0	0	42.6673230
Scale Factor			1.000036546
Elevation Adjust. Factor			0.9999598114
Combined Adjust. Factor			0.9999963559

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	23	50.4827520
Longitude	92	1	13.3250052
Ellipsoid Height:			227.778
Grid Northing (Meters)			228,997.2941
Grid Easting (Meters)			398,172.7310

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	23	50.4828024
Longitude	92	1	13.3242600
Ellipsoid Height (M):	227.803		0.0001
Geoid Height (M):	-28.296		0.0001

Location Description

TO REACH THE STATION FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND 223, IN VIOLA, GO WEST ON 62 2.3 MILES TO THE STATION ON THE RIGHT, 11.6 METERS NORTH OF THE CENTER OF THE HIGHWAY, 1.10 METERS SOUTH OF A FENCE CORNER AND 0.85 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250009A 2003" ON TOP OF A 0.80 IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONC RIGHT WAY MARKER	90	6.50	21.3
MK # 2	SOUTH WEST CORNER TRAILER HOUSE	315	27.50	90.2
MK # 3				

AZ Mark Station	250009
Geodetic Azimuth	272 46 54
Grid Azimuth	272 47 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARHR (AHTD PAR1)
Ref Mon # 2	ARJB, ARM3 (AHTD HAR1)
Ref Mon # 3	MOAT (BUTLER)

Comments

ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38 IN 2020 FOR JOB #050422. LEVELED ELEV. FROM R 38 HELD AS CONSTRAINT IN FINAL NETWORK ADJUSTMENT. ***NOTE SUPERCEDED GEOID HEIGHT -28.217

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250010	1/13/2003	AHTD	FULTON	62	050142

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	229,049.8351	
Easting (M)	394,560.0760	
Elevation (M)*	260.848	
Northing (SFT)	751,474.3340	
Easting (SFT)	1,294,485.8493	
Elevation (SFT)*	855.798	

Convergence Angle	0	2	7.0260221
Scale Factor	1.000036660		
Elevation Adjust. Factor	0.9999590661		
Combined Adjust. Factor	0.9999957246		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	52.1390292
Longitude	92	3	38.2956048
Ellipsoid Height (M):	232.590		
Geoid Height (M):	-28.224		

Location Description

TO REACH THE STATION FROM THE INTERSECTIONS OF U.S. STATE HIGHWAY 62 AND 223, IN VIOLA, GO WEST ON 62 4.66 MILES TO THE STATION ON THE LEFT. 14.2 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 7.0 METERS EAST OF A POWER LINE ACESS ROAD, 14.9 METERS NORTH OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "250010 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	145	11.50	37.7
MK # 2	TRANSMISSION POLE	190	29.50	96.8
MK # 3	TELEPHONE RISER	55	3.15	10.3

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR1
Ref Mon # 2	AHTD HAR1
Ref Mon # 3	BUTLER

Comments

ELEVATION BY 3-WIRE BY S5101 FROM NGS R 38

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250011	6/27/2010	AHTD	Fulton	63	050230

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	239,836.2031	
Easting (M)	441,543.6750	
Elevation (M)*	156.053	
Northing (SFT)	786,862.6097	
Easting (SFT)	1,448,631.2071	
Elevation (SFT)*	511.983	

Convergence Angle	0	16	11.2527556
Scale Factor	1.000061978		
Elevation Adjust. Factor	0.9999755108		
Combined Adjust. Factor	1.0000374873		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	29	38.9344740	
Longitude	91	32	10.8915432	
Ellipsoid Height (M):	127.847			
Geoid Height (M):	-28.442			

Location Description

To reach the station from the junction of highways 63 and 9 in Mammoth Springs go south on hwy-63 for 0.10 miles to the station on the left on a cut bank about 4 feet higher than the highway. 35.0 feet east of the center of hwy-63 and 2.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "250011 2010" set on top of a 5/8 by 4.00 foot long rebar and is 0.10 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southeast corner of a bridge	343	36.88	121.0
MK # 2	South end of a guard rail	178	25.30	83.0
MK # 3				

AZ Mark Station	250011A
Geodetic Azimuth	353 35 42
Grid Azimuth	353 19 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	MONA
Ref Mon # 3	MOWS

Comments

Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250011A	6/27/2010	AHTD	Fulton	63	050230,050503

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	240,365.2257	0.0010
Easting (M)	441,481.7737	0.0010
Elevation (M)*	168.696	

Northing (SFT)	788,598.2447	
Easting (SFT)	1,448,428.1192	
Elevation (SFT)*	553.465	

Convergence Angle	0	16	9.8637363
Scale Factor			1.000063305
Elevation Adjust. Factor			0.9999735267
Combined Adjust. Factor			1.0000368301

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	36	29	56.1050088
Longitude	91	32	13.2788976
Ellipsoid Height:			140.483
Grid Northing (Meters)			240,365.2241
Grid Easting (Meters)			441,481.7660

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	29	56.1050592	
Longitude	91	32	13.2785880	
Ellipsoid Height (M):			140.119	0.0070
Geoid Height (M):			-28.552	

Location Description

To reach the station from the junction of highways 63 and 9 in Mammoth Springs go north on hwy-63 for 0.20 miles to the station on the left in an area between two concrete drives. 66.0 feet west of the center of hwy-63 and 2.00 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "250011A 2010" set on top of a 5/8 by 4.00 foot long rebar and is 0.10 feet below the surface

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"Enter" sign	190	16.45	54.0
MK # 2	18 inch culvert	22	10.67	35.0
MK # 3	18 inch culvert	150	15.54	51.0

AZ Mark Station	250011
Geodetic Azimuth	173 35 41
Grid Azimuth	173 19 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	MONA
Ref Mon # 3	MOWS

Comments

Elevation was est. by crew S5102 in July 2010 from NGS marks L 308, M 308, and N 308.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250012	9/13/2011	AHTD	Fulton	63	012157,050265

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	223,509.2992
Easting (M)	447,133.9802
Elevation (M)*	
Northing (SFT)	733,296.7591
Easting (SFT)	1,466,972.0667
Elevation (SFT)*	
Convergence Angle	0 18 19.9111479
Scale Factor	1.000024397
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	20	48.3736272
Longitude	91	28	29.7906924
Ellipsoid Height (M):	173.053		
Geoid Height (M):	-28.429		

Location Description

Starting from the intersection of Hwy.63 and 62/412 in Hardy, go for 2.7miles north on hwy 63 to the station on the right. Cap stamped 250012-2011. on a 3.ft long and 5/8 rebar. 2.ft west of wittness post, 62.ft east of center line and is as described of. Lat. 36.2045 Lon.091.831

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	215	19.20	63.0
MK # 2	Fence corner	50	9.10	29.9
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250012A	9/13/2011	AHTD	Fulton	63	012157,050265

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	223,280.0505	
Easting (M)	446,912.4464	
Elevation (M)*		

Northing (SFT)	732,544.6323	
Easting (SFT)	1,466,245.2512	
Elevation (SFT)*		

Convergence Angle	0	18	14.7131768
Scale Factor			1.000023920
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	20	40.9747380
Longitude	91	28	38.7234624
Ellipsoid Height (M):	165.548		
Geoid Height (M):	-28.427		

Location Description

Starting from the intersection of Hwy.63 and 62/412, go for 2.5miles to the station on the left. Standard cap stamped 250012A-2011 and set on a 4ft long 5/8 rebar. 2.ft east of the wittness post and 36.ft west of center line and is as described above. Lat-36.2041 Lon-091.2839

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of ditch	310	2.00	6.6
MK # 2	Extended CL of county rd.	115	5.50	18.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250013	9/13/2011	AHTD	Fulton	63	012157,050265

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	227,838.6883	
Easting (M)	445,972.9217	
Elevation (M)*	149.846	
Northing (SFT)	747,500.7632	
Easting (SFT)	1,463,162.8273	
Elevation (SFT)*	491.618	

Convergence Angle	0	17	53.3430924
Scale Factor	1.000033711		
Elevation Adjust. Factor	0.9999764849		
Combined Adjust. Factor	1.0000101951		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	36	23	9.0219228
Longitude	91	29	15.4481856
Ellipsoid Height (M):	121.363		
Geoid Height (M):	-28.460		

Location Description

Starting at the intersection of Hwy. 63 and 62/412, go north for 6.1miles to the station on the left. Cap is a standard cap stamped 250013-2011 set on a 4.ft-5/8 rebar, and 3.ft east of wittness post and 75.ft west of center line and is as described above. Lat.36.2309 Lon.091.2915

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	metal fence post for double gate	310	0.60	2.0
MK # 2	Center line of grave dr.	225	4.90	16.1
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250013A	9/13/2011	AHTD	Fulton	63	012157,050265

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	227,333.0525	
Easting (M)	445,920.5861	
Elevation (M)*	171.300	
Northing (SFT)	745,841.8564	
Easting (SFT)	1,462,991.1229	
Elevation (SFT)*	562.007	

Convergence Angle	0	17	52.0598624
Scale Factor	1.000032601		
Elevation Adjust. Factor	0.9999731181		
Combined Adjust. Factor	1.0000057183		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid09			
Latitude	36	22	52.6275120	
Longitude	91	29	17.6534304	
Ellipsoid Height (M):	142.809			
Geoid Height (M):	-28.457			

Location Description

Starting at the intersection of Hwy. 63 and 62/412 in Hardy, go 5.75miles north on hwy.63 to the station on the left. Cap is stamped 250013A-2011, set on 2.ft - 5/8 rebar, 2.ft east of wittness post and 32.ft west of center line and is as described above. Lat.36.2252 Lon.091.2918

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center line of gravel dr.	175	8.80	28.9
MK # 2	Power pole with guy	206	24.40	80.1
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BM H 313 DURING JOB 050274 BY CREW S5103 IN JAN. 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250014	9/13/2011	AHTD	Fulton	63	012157,050265

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	231,140.6776
Easting (M)	445,391.8004
Elevation (M)*	
Northing (SFT)	758,334.0398
Easting (SFT)	1,461,256.2651
Elevation (SFT)*	

Convergence Angle	0	17	40.1719670
Scale Factor	1.000041125		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	24	56.2379112
Longitude	91	29	38.0829084
Ellipsoid Height (M):	192.832		
Geoid Height (M):	-28.474		

Location Description

Starting at the intersection of Hwy.63 and 62/412, go north on hwy.63 for 8.65miles to the station on the right. standard cap stamped 250014-2011. 2.ft west of witness post, set on 4.ft-5/8 rebar, 60.ft east of center line and is as descibed above. Lat.36.2456 Lon.091.2938

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	corgated metal pipe	225	5.20	17.1
MK # 2	center line of gravel dr.	90	7.30	24.0
MK # 3	power pole	170	29.00	95.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250014A	9/13/2011	AHTD	Fulton	63	012157,050265

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	231,520.0043	
Easting (M)	445,255.0427	
Elevation (M)*		

Northing (SFT)	759,578.5474	
Easting (SFT)	1,460,807.5859	
Elevation (SFT)*		

Convergence Angle	0	17	37.0233078
Scale Factor	1.000041995		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	25	8.5661796
Longitude	91	29	43.4939136
Ellipsoid Height (M):	188.502		
Geoid Height (M):	-28.476		

Location Description

Starting of the intersection of Hwy.63 and 62/412, go 8.9miles north on hwy.63 to the station on the left cap is standard cap stamped 250014A-2011, 6.ft south from the wittness post and 77.ft west of center line and is as described above. Lat.36.2509 Lon.091.2944

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center line of gravel dr.	0	8.80	28.9
MK # 2	18" Corgated metal pipe	70	11.60	38.1
MK # 3	Center Line of Hwy.63	90	23.50	77.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250015	9/13/2011	AHTD	Fulton	63	012157,050265

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	235,349.2912
Easting (M)	445,320.6249
Elevation (M)*	
Northing (SFT)	772,141.7995
Easting (SFT)	1,461,022.7502
Elevation (SFT)*	
Convergence Angle	0 17 39.0142931
Scale Factor	1.000050961
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	27	12.7777608
Longitude	91	29	40.0723836
Ellipsoid Height (M):	190.746		
Geoid Height (M):	-28.489		

Location Description

Starting from the intersection of Hwy.63 and 62/412 in Hardy, go north on hwy. 63 for 11.75miles to the station on the right, standard cap stamed 250015-2011, set on top of 2.ft-5/8 rebar, 2.ft west of wittness post and 61.ft east of center line and is as described above. Lat.36.2713 Lon.091.2940

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	south of telephone box	20	2.30	7.5
MK # 2	north of Union Hill RD.	180	8.50	27.9
MK # 3	15"corgated metal pipe	320	14.30	46.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250016	2/14/2013	AHTD	Fulton	9	050271

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	228,838.9825	
Easting (M)	419,211.7929	
Elevation (M)*	216.079	
Northing (SFT)	750,782.5618	
Easting (SFT)	1,375,364.0239	
Elevation (SFT)*	708.920	

Convergence Angle	0	7	28.5974151
Scale Factor	1.000036146		
Elevation Adjust. Factor	0.9999660913		
Combined Adjust. Factor	1.0000022360		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	36	23	44.6753400
Longitude	91	47	9.0804480
Ellipsoid Height (M):	187.783		
Geoid Height (M):	-28.293		

Location Description

To reach from the intersection of Hwy. 62/412 and Hwy. 9, go North on Hwy. 9 for 3.3 miles to the station on the right. The station is 29.5 ft. South of the Centerline of Hwy. 9, and 3 ft. North of witness post. The station mark is a 2 1/2 in. cap stamped "250016 2013" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	32	32.31	106.0
MK # 2	Metal fence post	226	20.12	66.0
MK # 3	Wood fence post	83	1.52	5.0

AZ Mark Station	250016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250016A	2/14/2013	AHTD	Fulton	9	050271

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	228,672.5418	
Easting (M)	418,752.0139	
Elevation (M)*	214.182	
Northing (SFT)	750,236.4976	
Easting (SFT)	1,373,855.5656	
Elevation (SFT)*	702.696	

Convergence Angle	0	7	17.8533111
Scale Factor	1.000035778		
Elevation Adjust. Factor	0.9999663890		
Combined Adjust. Factor	1.0000021658		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	36	23	39.3078840
Longitude	91	47	27.5443080
Ellipsoid Height (M):	185.894		
Geoid Height (M):	-28.288		

Location Description

To reach from the intersection of Hwy. 62/412 and Hwy. 9, go North on Hwy. 9 for 3.0 miles to the station on the left. The station is 38 ft. North of the Centerline of Hwy. 9, and 42 ft. West of Centerline of driveway at 2168 Hwy. 9, and 2 ft. South of witness post. The station mark is a 2 1/2 in. cap stamped "250016A 2013" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	242	22.25	73.0
MK # 2	Metal fence post	30	0.91	3.0
MK # 3				

AZ Mark Station	250016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS DETERMINED BY DIGITAL LEVELS FROM NGS BM B 17 BY CREW S5102 DURING JOB 050271 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250017	6/28/2017	S5101	FULTON	9	050347

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,537.3080	0.0030
Easting (M)	409,254.7917	0.0040
Elevation (M)*	222.750	0.0020
Northing (SFT)	710,422.8180	
Easting (SFT)	1,342,696.7624	
Elevation (SFT)*	730.804	

Convergence Angle	0	3	35.8001115	
Scale Factor	1.000010632			
Elevation Adjust. Factor	0.9999650445			
Combined Adjust. Factor	0.9999756762			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	17	6.1073412	
Longitude	91	53	49.1451540	
Ellipsoid Height (M):	194.602			0.0000
Geoid Height (M):	-28.148			

Location Description

To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 7.4 miles southwest along AR hwy 9 to the monument on the right 32.7 feet west of the centerline. A standard 3" aluminum cap stamped 250017 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 7.5' East of sign.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE LINE	300	2.44	8.0
MK # 2	TELEPHONE BOX	18	32.61	107.0
MK # 3	Witness sign		2.29	7.5

AZ Mark Station	250017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	MOAT
Ref Mon # 3	MOWS

Comments

Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250017A	6/28/2017	S5101	FULTON	9	050347

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,869.0774	0.0040
Easting (M)	409,469.6539	0.0050
Elevation (M)*	226.970	0.0009
Northing (SFT)	711,511.2981	
Easting (SFT)	1,343,401.6895	
Elevation (SFT)*	744.651	

Convergence Angle	0	3	40.8184734
Scale Factor	1.000011271		
Elevation Adjust. Factor	0.9999643823		
Combined Adjust. Factor	0.9999756529		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	17	16.8633852
Longitude	91	53	40.5210444
Ellipsoid Height (M):	198.844	0.0160	
Geoid Height (M):	-28.151		

Location Description

To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 7.2 miles southwest along AR hwy 9 to the monument on the right 33.3 feet west of the centerline and 59.0 feet south of the centerline of Emiline road. A standard 3" aluminum cap stamped 250017A / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 7' East of sign.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE LINE	300	2.26	7.4
MK # 2	TELEPHONE BOX	16	6.00	19.7
MK # 3	FIRE HYDRANT	15	11.70	38.4

AZ Mark Station	250017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	MOAT
Ref Mon # 3	MOWS

Comments

Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250018	6/28/2017	S5101	FULTON	9	050347

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	219,040.2269	0.0040
Easting (M)	411,444.9268	0.0040
Elevation (M)*	275.210	0.0017
Northing (SFT)	718,634.4778	
Easting (SFT)	1,349,882.2307	
Elevation (SFT)*	902.917	

Convergence Angle	0	4	26.9444223
Scale Factor	1.000015521		
Elevation Adjust. Factor	0.9999568125		
Combined Adjust. Factor	0.9999723328		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	18	27.2247948
Longitude	91	52	21.2530980
Ellipsoid Height (M):	247.052		0.0150
Geoid Height (M):	-28.178		

Location Description

To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 5.3 miles southwest along AR hwy 9 to the monument on the left 33.0 feet east of the centerline. A standard 3" aluminum cap stamped 250018 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 7’ West of sign

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	210	19.05	62.5
MK # 2	CENTER OF CORIGATED METAL PIPE	235	15.85	52.0
MK # 3	POWER POLE	40	12.13	39.8

AZ Mark Station	250018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	MOAT
Ref Mon # 3	MOWS

Comments

Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250018A	6/28/2017	S5101	FULTON	9	050347

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	219,540.7683	0.0050
Easting (M)	411,798.7698	0.0050
Elevation (M)*	262.083	0.0017
Northing (SFT)	720,276.6707	
Easting (SFT)	1,351,043.1306	
Elevation (SFT)*	859.851	

Convergence Angle	0	4	35.2131162
Scale Factor	1.000016517		
Elevation Adjust. Factor	0.9999588723		
Combined Adjust. Factor	0.9999753886		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	18	43.4483640
Longitude	91	52	7.0432572
Ellipsoid Height (M):	233.915		0.0150
Geoid Height (M):	-28.187		

Location Description

To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 4.9miles southwest along AR hwy 9 to the monument on the right 35.9 feet west of the centerline. A standard 3" aluminum cap stamped 250018A / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 5’ West of sign.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE LINE	300	1.68	5.5
MK # 2	CENTER OF WEST HEADWALL	50	30.02	98.5
MK # 3	Witness sign		1.52	5.0

AZ Mark Station	250018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	MOAT
Ref Mon # 3	MPWS

Comments

Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250019	6/28/2017	S5101	FULTON	9	050347

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	222,639.9204	0.0040
Easting (M)	413,639.0836	0.0050
Elevation (M)*	241.640	0.0052
Northing (SFT)	730,444.4722	
Easting (SFT)	1,357,080.8934	
Elevation (SFT)*	792.780	

Convergence Angle	0	5	18.2509718
Scale Factor	1.000022825		
Elevation Adjust. Factor	0.9999620803		
Combined Adjust. Factor	0.9999849044		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	20	23.9050896
Longitude	91	50	53.0822328
Ellipsoid Height (M):	213.375		0.0180
Geoid Height (M):	-28.247		

Location Description

To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 2.5 miles southwest along AR hwy 9 to the monument on the left 31.0 feet east of the centerline. A standard 3" aluminum cap stamped 250019 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 10’ West of sign.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	135	3.05	10.0
MK # 2	POWER POLE	165	8.69	28.5
MK # 3	NORTH END OF CORIGATED METAL PIPE	225	41.36	135.7

AZ Mark Station	250019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	MOAT
Ref Mon # 3	MOWS

Comments

Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250019A	6/28/2017	S5101	FULTON	9	050347

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	223,171.4297	0.0040
Easting (M)	414,089.7711	0.0040
Elevation (M)*	228.211	0.0016
Northing (SFT)	732,188.2656	
Easting (SFT)	1,358,559.5240	
Elevation (SFT)*	748.723	

Convergence Angle	0	5	28.7869517
Scale Factor	1.000023930		
Elevation Adjust. Factor	0.9999641875		
Combined Adjust. Factor	0.9999881167		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	20	41.1252540
Longitude	91	50	34.9760364
Ellipsoid Height (M):	199.987	0.0160	
Geoid Height (M):	-28.260		

Location Description

To reach the monument from the junction of US highway 62/412 and AR highway 9 in Salem AR travel 2.1 miles southwest along AR hwy 9 to the monument on the left 30.7 feet east of the centerline. A standard 3" aluminum cap stamped 250017 / 2017 on top of a 5/8 inch rebar 4 foot long driven flush with the ground, 13' West of sign.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	115	3.78	12.4
MK # 2	SOUTH END OF CORIGATED METAL PIPE	350	3.51	11.5
MK # 3	Witness sign		3.96	13.0

AZ Mark Station	250019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	MOAT
Ref Mon # 3	MOWS

Comments

Elevations ran from USGS second order E17 and B17 using digital levels by crew S5101 during job 050347 in July 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250020	6/6/2023	ARDOT	FULTON	62 / 412	012390

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	227,477.4085	0.0020
Easting (M)	386,278.5852	0.0020
Elevation (M)*	283.896	

Northing (SFT)	746,315.4644	
Easting (SFT)	1,267,315.6583	
Elevation (SFT)*	931.414	

Convergence Angle	0	5	20.3473715
Scale Factor	1.000033156		
Elevation Adjust. Factor	0.9999554495		
Combined Adjust. Factor	0.9999886040		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	23	0.8363544
Longitude	92	9	10.5204528
Ellipsoid Height (M):	255.577		0.0110
Geoid Height (M):	-28.319		

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/ 412 AND ARKANSAS STATE HIGHWAY 87 NEAR GEPP IN FULTON COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HIGHWAY 62/412, 2.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD ARDOT GPS MONUMENT STAMPED 250020, 2023 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 IN. REBAR 4 FT. IN LENGTH. THE MONUMENT IS 57 FEET EAST OF THE CENTERLINE OF U.S. HIGHWAY 62/412 AND 48 FEET SOUTH OF THE CENTERLINE OF OAK RIDGE DRIVE NEAR THE FULTON AND BAXTER COUNTY LINE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	154	49.99	164.0
MK # 2	GUY POLE	356	38.40	126.0
MK # 3				

AZ Mark Station	250020A
Geodetic Azimuth	169 27 25.6
Grid Azimuth	169 32 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARMB,MOAT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250020A	6/6/2023	ARDOT	FULTON	62 / 412	012390

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	227,038.5722	0.0020
Easting (M)	386,359.5557	0.0020
Elevation (M)*		

Northing (SFT)	744,875.7156	
Easting (SFT)	1,267,581.3090	
Elevation (SFT)*		

Convergence Angle	0	5	18.4411767
Scale Factor			1.000032195
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	36	22	46.6040244	
Longitude	92	9	7.2446364	
Ellipsoid Height (M):	245.805			0.0110
Geoid Height (M):	-28.313			

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/ 412 AND ARKANSAS STATE HIGHWAY 87 NEAR GEPP IN FULTON COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HIGHWAY 62/412, 2.5 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD ARDOT GPS MONUMENT STAMPED 250020A 2023 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 IN. REBAR 4 FT. IN LENGTH. THE MONUMENT IS 37 FEET WEST OF THE CENTERLINE OF U.S. HIGHWAY 62/412 AND 47 FEET NORTH OF THE CENTERLINE OF ARBER LANE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	4	19.81	65.0
MK # 2	SOUTH END OF A 18 IN. CORIGATED META L PIPE	176	11.28	37.0
MK # 3	SOUTH EAST CORNER OF A CONCRETE DRI VEWAY	305	18.29	60.0

AZ Mark Station	250020
Geodetic Azimuth	349 27 25.6
Grid Azimuth	349 32 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARMB,MOAT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250021	6/6/2023	ARDOT	FULTON	62 / 412	012390

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	227,373.9981	0.0020
Easting (M)	388,743.9025	0.0020
Elevation (M)*	258.112	

Northing (SFT)	745,976.1921	
Easting (SFT)	1,275,403.9535	
Elevation (SFT)*	846.824	

Convergence Angle	0	4	22.7877695
Scale Factor	1.000032937		
Elevation Adjust. Factor	0.9999594954		
Combined Adjust. Factor	0.9999924311		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	36	22	57.5946480
Longitude	92	7	31.6036488
Ellipsoid Height (M):	229.811	0.0100	
Geoid Height (M):	-28.302		

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/ 412 AND ARKANSAS STATE HIGHWAY 87 NEAR GEPP IN FULTON COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HIGHWAY 62/412, 0.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD ARDOT GPS MONUMENT STAMPED 250021, 2023 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 IN. REBAR 4 FT. IN LENGTH. THE MONUMENT IS 35 FEET NORTH WEST OF THE CENTERLINE OF U.S. HIGHWAY 62/412 AND 5 FEET SOUTH EAST OF A 4 FOOT WOVEN WIRE FENCE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	118	23.77	78.0
MK # 2	COMBINATION POLE	39	46.94	154.0
MK # 3	COMBINATION POLE	238	56.39	185.0

AZ Mark Station	250021A
Geodetic Azimuth	54 26 02.7
Grid Azimuth	54 30 20.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARMB,MOAT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
250021A	6/6/2023	ARDOT	FULTON	62 / 412	012390

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	227,661.1678	0.0020
Easting (M)	389,146.5854	0.0020
Elevation (M)*		

Northing (SFT)	746,918.3480	
Easting (SFT)	1,276,725.0889	
Elevation (SFT)*		

Convergence Angle	0	4	13.3948750
Scale Factor	1.000033569		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	36	23	6.9271296
Longitude	92	7	15.4618572
Ellipsoid Height (M):	236.605	0.0100	
Geoid Height (M):	-28.302		

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/ 412 AND ARKANSAS STATE HIGHWAY 87 NEAR GEPP IN FULTON COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HIGHWAY 62/412,0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD ARDOT GPS MONUMENT STAMPED 250021A, 2023 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/8 IN. REBAR 4 FT. IN LENGTH. THE MONUMENT IS 35 FEET SOUTH EAST OF THE CENTERLINE OF U.S. HIGHWAY 62/412 AND 5 FEET NORTHWEST OF A BARBED WIRE FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE PEDESTAL	221	14.46	47.4
MK # 2	COMBINATION POLE	64	25.30	83.0
MK # 3				

AZ Mark Station	250021
Geodetic Azimuth	234 26 02.7
Grid Azimuth	234 30 20.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARMB,MOAT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260001	11/2/1998	AHTD	GARLAND	7	R60140, 060776

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	612,887.6919	
Easting (M)	308,654.9540	
Elevation (M)*	202.343	
Northing (SFT)	2,010,782.3692	
Easting (SFT)	1,012,645.4616	
Elevation (SFT)*	663.854	

Convergence Angle	0	33	26.0991175
Scale Factor	0.999964039		
Elevation Adjust. Factor	0.9999682468		
Combined Adjust. Factor	0.9999322869		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	34	55.3667880
Longitude	92	59	44.2996224
Ellipsoid Height (M):	175.144		
Geoid Height (M):	-27.115		

Location Description

TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE, GO SOUTH ON HIGHWAY 7 FOR 10.70KM. (6.65MI.) TO THE STATION ON THE RIGHT. 16.47 METERS SOUTHWEST OF THE CENTER OF HIGHWAY 7 AND 0.50 METERS NORTHEAST OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260001 1998" SET ON TOP OF AN IRON ROD 0.83 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	144	7.97	26.1
MK # 2	LIGHT POLE	304	8.48	27.8
MK # 3	SOUTH END OF CONCRETE HEADWALL	341	21.85	71.7

AZ Mark Station	260001A
Geodetic Azimuth	116 16 05.61070
Grid Azimuth	116 49 31.76798

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

ELEVATION BY 3-WIRE FROM NGS K 103, L 103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260001A	11/2/1998	AHTD	GARLAND	7	R60140, 060776

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	612,698.5559	
Easting (M)	309,028.9640	
Elevation (M)*	189.256	
Northing (SFT)	2,010,161.8455	
Easting (SFT)	1,013,872.5261	
Elevation (SFT)*	620.917	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	34	49.3468140	
Longitude	92	59	29.5528344	
Ellipsoid Height (M):	162.122			
Geoid Height (M):	-27.100			

Convergence Angle	0	33	17.8454776	
Scale Factor	0.999963761			
Elevation Adjust. Factor	0.9999703004			
Combined Adjust. Factor	0.9999340625			

Location Description

TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE , GO SOUTH ON HIGHWAY 7 FOR 11.105 KM. (6.90MI.) TO THE STATION ON THE RIGHT. 61.50 METERS WEST OF THE CENTER OF A PAVED ENTRANCE TO J'S MINI STORAGE, 8.00M SOUTH OF THE CENTER OF HIGHWAY 7 AND 0.40 METERS NORTH OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260001A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	106	29.55	96.9
MK # 2	GUY POLE	281	34.20	112.2
MK # 3	N/A			

AZ Mark Station	260001
Geodetic Azimuth	296 16 13.98060
Grid Azimuth	296 49 31.76798

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

ELEVATION BY 3-WIRE FROM NGS K 103, L 103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260002	11/3/1998	AHTD	GARLAND	7	060776

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	615,733.0440	
Easting (M)	305,639.6220	
Elevation (M)*	211.743	
Northing (SFT)	2,020,117.4952	
Easting (SFT)	1,002,752.6598	
Elevation (SFT)*	694.693	

Convergence Angle	0	34	32.9447553	
Scale Factor	0.999968366			
Elevation Adjust. Factor	0.9999667717			
Combined Adjust. Factor	0.9999351388			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	36	26.7350976	
Longitude	93	1	43.7328012	
Ellipsoid Height (M):	184.475			
Geoid Height (M):	-27.268			

Location Description

TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 6.357KM. (3.95MI.) TO THE STATION ON THE LEFT. 17.10 METERS NORTHEAST OF THE CENTER OF HWY-7, 9.80 METERS SOUTHEAST OF A PAVED DRIVEWAY AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260002 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST END O.90 METER CONCRETE P IRE	313	13.10	43.0
MK # 2	N/A			
MK # 3	N/A			

AZ Mark Station	260002A
Geodetic Azimuth	153 50 29.07650
Grid Azimuth	154 25 02.04413

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260002A	11/3/1998	AHTD	GARLAND	7	060776,061438

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	615,443.8509	
Easting (M)	305,778.0730	
Elevation (M)*	210.035	
Northing (SFT)	2,019,168.7008	
Easting (SFT)	1,003,206.8945	
Elevation (SFT)*	689.090	

Convergence Angle	0	34	29.8396642
Scale Factor	0.999967914		
Elevation Adjust. Factor	0.9999670397		
Combined Adjust. Factor	0.9999349548		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	36	17.3955276
Longitude	93	1	38.1849312
Ellipsoid Height (M):	182.730		
Geoid Height (M):	-27.257		

Location Description

TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 6.679KM. (4.15MI.) TO THE STATION ON THE RIGHT. 47.79 METERS SOUTHEAST OF THE CENTER OF "TURTLE CREEK ROAD", 9.38 METERS SOUTHWEST OF THE CENTER OF HWY-7 AND 0.78 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260002A 1998" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	329	59.36	194.8
MK # 2	GUY POLE	11	32.80	107.6
MK # 3	GUY POLE	89	22.60	74.1

AZ Mark Station	260002
Geodetic Azimuth	333 50 32.22731
Grid Azimuth	334 25 02.04413

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260003	11/3/1998	AHTD	GARLAND	7	060776,061438

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	620,225.3549	
Easting (M)	303,072.2100	
Elevation (M)*	245.210	
Northing (SFT)	2,034,856.0185	
Easting (SFT)	994,329.4090	
Elevation (SFT)*	804.494	

Convergence Angle	0	35	30.3619335
Scale Factor	0.999975633		
Elevation Adjust. Factor	0.9999615200		
Combined Adjust. Factor	0.9999371539		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	38	51.6662376
Longitude	93	3	26.3201400
Ellipsoid Height (M):	217.706		
Geoid Height (M):	-27.454		

Location Description

TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 0.643KM. (0.40 MI.) TO THE STATION ON THE LEFT. 15.10 METERS EAST OF THE CENTER OF HWY-7 AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260003 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N/A			
MK # 2	N/A			
MK # 3	N/A			

AZ Mark Station	260003A
Geodetic Azimuth	6 26 34.38755
Grid Azimuth	7 02 04.76074

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260003A	11/3/1998	AHTD	GARLAND	7	060776,061438

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	620,797.2560	0.0060
Easting (M)	303,142.8010	0.0057
Elevation (M)*	287.087	
Northing (SFT)	2,036,732.3307	
Easting (SFT)	994,561.0063	
Elevation (SFT)*	941.883	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	39	10.2484908	
Longitude	93	3	23.7800484	
Ellipsoid Height (M):	259.621			0.0110
Geoid Height (M):	-27.466			

Convergence Angle	0	35	28.9402678
Scale Factor	0.999976600		
Elevation Adjust. Factor	0.9999549488		
Combined Adjust. Factor	0.9999315499		

Location Description

TO REACH THE STATION FROM THE HOT SPRINGS VILLAGE POST OFFICE GO SOUTH ON HIGHWAY 7 FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE RIGHT. 26.56 METERS SOUTHEAST OF THE CENTER OF "McNEELEY CIRCLE", 10.32 METERS WEST OF THE CENTER OF HWY-7 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260003A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	39	10.2485484
Longitude	93	3	23.7807936
Ellipsoid Height:	259.521		
Grid Northing (Meters)	620,797.2580		
Grid Easting (Meters)	303,142.7820		

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N/A			
MK # 2	N/A			
MK # 3	N/A			

AZ Mark Station	260003
Geodetic Azimuth	186 26 35.83134
Grid Azimuth	187 02 04.76074

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260004	9/13/1999	AHTD	GARLAND	7	060686

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	598,214.8789	
Easting (M)	300,503.5200	
Elevation (M)*	137.261	
Northing (SFT)	1,962,643.3152	
Easting (SFT)	985,901.9652	
Elevation (SFT)*	450.330	

Convergence Angle	0	36	21.6979605
Scale Factor	0.999944577		
Elevation Adjust. Factor	0.9999784597		
Combined Adjust. Factor	0.9999230379		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	26	56.5159452	
Longitude	93	4	58.0422792	
Ellipsoid Height (M):	110.231			
Geoid Height (M):	-27.062			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 AND STATE HIGHWAY 7, LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, GO SOUTH ON STATE HIGHWAY 7 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7, 13.00 METERS WEST-SOUTHWEST OF THE CENTER OF THE PAVED ENTRANCE TO THE HOT SPINGS MALL AND 0.43 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A SIDEWALK. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.331 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	86	14.70	48.2
MK # 2	WATER METER	136	14.75	48.4
MK # 3	TELEPHONE JUNCTION BOX	203	15.15	49.7

AZ Mark Station	260004A
Geodetic Azimuth	62 48 15.521904
Grid Azimuth	63 24 37.278050

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	HOPEPORT

Comments

Elevation by 3 wire from NGS point AP 1970 A3 HOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260004A	9/13/1999	AHTD	GARLAND	7	060686

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	598,464.3199	
Easting (M)	301,001.8680	
Elevation (M)*	138.977	
Northing (SFT)	1,963,461.6895	
Easting (SFT)	987,536.9619	
Elevation (SFT)*	455.960	

Convergence Angle	0	36	10.8288630
Scale Factor	0.999944867		
Elevation Adjust. Factor	0.9999781905		
Combined Adjust. Factor	0.9999230587		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	27	4.7816280
Longitude	93	4	38.6224500
Ellipsoid Height (M):	111.963		
Geoid Height (M):	-27.051		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 AND STATE HIGHWAY 7, LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, GO SOUTH ON STATE HIGHWAY 7 FOR 2.41 K M (1.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.45 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.331 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MANHOLE COVER	85	14.60	47.9
MK # 2	TELEPHONE JUNCTION BOX	99	13.15	43.1
MK # 3	WATER METER	232	10.35	34.0

AZ Mark Station	260004
Geodetic Azimuth	242 48 26.50750
Grid Azimuth	243 24 37.27805

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	HOPEPORT

Comments

Elevation by 3 wire from NGS point AP 1970 A3 HOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260005	9/13/1999	AHTD	GARLAND	270	060686,061312

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	600,056.0099	
Easting (M)	301,430.1910	
Elevation (M)*	170.741	
Northing (SFT)	1,968,683.7591	
Easting (SFT)	988,942.2183	
Elevation (SFT)*	560.173	

Convergence Angle	0	36	1.8030843
Scale Factor			0.999946722
Elevation Adjust. Factor			0.9999732059
Combined Adjust. Factor			0.9999199293

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	27	56.5822044	
Longitude	93	4	22.4960808	
Ellipsoid Height (M):	143.675			
Geoid Height (M):	-27.066			

Location Description

THE STATION IS LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, AT THE JUNCTION OF U.S. HIGHWAY 270 AND STATE HIGHWAY 88 (HIGDON FERRY ROAD), THE STATION IS SET WEST OF THE WEST END OF THE U.S. HIGHWAY 270 OVERPASS OF STATE HIGHWAY 88, THE STATION IS 8.85 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANE, 6.75 METERS SOUTHWEST OF THE WEST END OF THE BRIDGE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260005 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5102 BY 3 WIRE LEVELING FROM AN AHTD CAP SET IN BRIDGE NUMBER 6369. THE SHOT DISTANCE IS 1062.170 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF METAL GUARD RAIL POST	298	3.35	11.0
MK # 2	PUNCH IN TOP OF METAL GUARD RAIL POST	26	2.26	7.4
MK # 3	PUNCH IN TOP OF METAL GUARD RAIL POST	62	6.12	20.1

AZ Mark Station	260005A
Geodetic Azimuth	88 55 04.959973
Grid Azimuth	89 31 06.892526

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	HOPEPORT

Comments

Elevation by 3 wire from NGS point AP 1970 A3 HOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260005A	9/13/1999	AHTD	GARLAND	270	060686

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	600,064.9339	
Easting (M)	302,492.2390	
Elevation (M)*	153.496	
Northing (SFT)	1,968,713.0373	
Easting (SFT)	992,426.6208	
Elevation (SFT)*	503.595	

Convergence Angle	0	35	38.5142770
Scale Factor			0.999946746
Elevation Adjust. Factor			0.9999759121
Combined Adjust. Factor			0.9999226593

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	27	57.2311080
Longitude	93	3	40.8859416
Ellipsoid Height (M):	126.470		
Geoid Height (M):	-27.035		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND THE U.S. HIGHWAY 270 WEST BOUND ON RAMP, LOCATED ON THE SOUTH SIDE OF HOT SPRINGS, GO WESTERLY ON THE ON RAMP FOR 0.08 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.48 METERS SOUTH OF THE CENTER OF A FRONTAGE ROAD, 14.46 METERS NORTH OF THE CENTER OF THE ON RAMP AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260005A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 1062.170 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	260005
Geodetic Azimuth	268 55 28.50774
Grid Azimuth	269 31 06.89253

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR 1
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	HOPEPORT

Comments

Elevation by 3 wire from NGS point AP 1970 A3 HOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260006	9/20/1999	AHTD	GARLAND	70	R60032

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	597,646.7139	
Easting (M)	289,489.2070	
Elevation (M)*	160.096	
Northing (SFT)	1,960,779.2605	
Easting (SFT)	949,765.8400	
Elevation (SFT)*	525.248	

Convergence Angle	0	40	23.0456219
Scale Factor			0.999943797
Elevation Adjust. Factor			0.9999748763
Combined Adjust. Factor			0.9999186748

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	26	34.0875204
Longitude	93	12	9.2584260
Ellipsoid Height (M):	144.109		
Geoid Height (M):	-27.316		

Location Description

THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227, IN LAKE HAMILTON. THE STATION IS 20.49 METERS SOUTH-SOUTHWEST OF THE CENTER OF STATE HIGHWAY 227, 13.00 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260006 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 292.615 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF RCP	319	30.81	101.1
MK # 2	BURIED CABLE WARNING SIGN	0	8.54	28.0
MK # 3	CP	213	26.70	87.6

AZ Mark Station	260006A
Geodetic Azimuth	268 32 47.41777
Grid Azimuth	269 13 10.42963

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Elevation based 3 wire NGS point HEMP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260006A	9/20/1999	AHTD	GARLAND	70	R60032,061620

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	597,642.7289	
Easting (M)	289,196.6500	
Elevation (M)*	170.348	0.0020
Northing (SFT)	1,960,766.1864	
Easting (SFT)	948,806.0092	
Elevation (SFT)*	558.883	

Convergence Angle	0	40	29.4585683
Scale Factor	0.999943789		
Elevation Adjust. Factor	0.9999732676		
Combined Adjust. Factor	0.9999170581		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	26	33.8465148
Longitude	93	12	20.7164448
Ellipsoid Height (M):	143.075		
Geoid Height (M):	-27.322		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227, LOCATED IN LAKE HAMILTON, GO SOUTHWEST ON U.S. HIGHWAY 70 FOR 0.29 KM (0.18 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.23 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 292.615 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	OLD UTILITY POLE AT THE WEST END OF F ENCE	89	15.70	51.5
MK # 2	BURIED CABLE WARING SIGN	275	8.15	26.7
MK # 3	NONE			

AZ Mark Station	260006
Geodetic Azimuth	88 32 40.937313
Grid Azimuth	89 13 10.429633

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Elevation based 3 wire NGS point HEMP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260007	9/20/1999	AHTD	GARLAND	70	R60032

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	599,981.9869	
Easting (M)	294,812.6560	
Elevation (M)*	148.391	
Northing (SFT)	1,968,440.9020	
Easting (SFT)	967,231.1889	
Elevation (SFT)*	486.846	

Convergence Angle	0	38	26.9069712
Scale Factor			0.999946550
Elevation Adjust. Factor			0.9999767132
Combined Adjust. Factor			0.9999232644

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	27	51.8535504	
Longitude	93	8	41.7533640	
Ellipsoid Height (M):	121.107			
Geoid Height (M):	-27.249			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 192, LOCATED ABOUT 3.22 KM (2.00 MI) SOUTHWEST OF HOT SPRINGS, GO NORTHEAST ON U.S. HIGHWAY 70 FOR 0.19 KM (0.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.59 METERS EAST-SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 70, 8.60 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE PAVED ENTRANCE TO HARVAST FOODS AND 1.65 METERS EAST-SOUTHEAST OF THE BACK OF CURB. THE STATION MARK IS STANDARD 64mm CAP STAMPED "260007 1999" SET ON TOP OF AN IRON ROD 0.48 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 432.201 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	228	4.25	13.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	260007A
Geodetic Azimuth	214 57 14.37750
Grid Azimuth	215 35 41.25445

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Elevation based 3 wire NGS point HEMP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260007A	9/20/1999	AHTD	GARLAND	70	R60032

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	599,630.5648	
Easting (M)	294,561.1110	
Elevation (M)*	139.720	
Northing (SFT)	1,967,287.9447	
Easting (SFT)	966,405.9117	
Elevation (SFT)*	458.398	

Convergence Angle	0	38	32.3368485
Scale Factor	0.999946134		
Elevation Adjust. Factor	0.9999780739		
Combined Adjust. Factor	0.9999242090		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	27	40.3576596
Longitude	93	8	51.4549320
Ellipsoid Height (M):	112.421		
Geoid Height (M):	-27.248		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 192, LOCATED ABOUT 3.22 KM (2.00 MI) SOUTHWEST OF HOT SPRINGS, GO SOUTHWEST ON U.S. HIGHWAY 70 FOR 0.19 KM (0.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.50 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ENTRANCE TO A SHELL PIT, 10.6 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260007A 1999" SET ON TOP OF AN IRON ROD 0.40 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 432.201 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	260007
Geodetic Azimuth	34 57 08.887660
Grid Azimuth	35 35 41.254449

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Elevation based 3 wire NGS point HEMP

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260008	8/20/2001	AHTD	GARLAND	227	060984,061620

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	600,847.4789
Easting (M)	285,518.0040
Elevation (M)*	
Northing (SFT)	1,971,280.4370
Easting (SFT)	936,736.9848
Elevation (SFT)*	
Convergence Angle	0 41 50.9635530
Scale Factor	0.999947449
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	28	16.4177652
Longitude	93	14	46.3414956
Ellipsoid Height (M):	109.916		
Geoid Height (M):	-27.469		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227 LOCATED IN HEMPWALLACE, GO NORTHWEST ON STATE HIGHWAY 227 FOR 6.647 KM (4.13 MI) TO THE STATION ON THE RIGHT. THE STATION IS 36.65 METERS WEST OF A GRAVEL DRIVE, 15.25 METERS NORTH OF THE CENTER OF STATE HIGHWAY 227, AND 0.90 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260008 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 722.124 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	267	26.70	87.6
MK # 2	CORRIGATED METAL PIPE	101	30.30	99.4
MK # 3				

AZ Mark Station	260008A
Geodetic Azimuth	269 48 13
Grid Azimuth	270 30 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	AP 1970 STA A3 HOT
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	260006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260008A	8/20/2001	AHTD	GARLAND	227	060984,061620

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	600,853.7948
Easting (M)	284,795.9540
Elevation (M)*	
Northing (SFT)	1,971,301.1584
Easting (SFT)	934,368.0591
Elevation (SFT)*	
Convergence Angle	0 42 6.8005829
Scale Factor	0.999947446
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	3rd Order - 3 Wire Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 28 16.3365672
Longitude	93 15 14.6375352
Ellipsoid Height (M):	120.404
Geoid Height (M):	-27.483

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 227 LOCATED IN HEMPWALLACE, GO NORTHWEST ON STATE HIGHWAY 227 FOR 7.355 KM (4.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 227 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260008A 2001" SET ON TOP OF AN IRON ROD O.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 722.124 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	260008
Geodetic Azimuth	89 47 57
Grid Azimuth	90 30 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	AP 1970 STA A3 HOT
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	260006

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260009	4/30/2002	AHTD	GARLAND	N/A	060978

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	612,252.5210	
Easting (M)	292,326.7210	
Elevation (M)*	148.599	
Northing (SFT)	2,008,698.4793	
Easting (SFT)	959,075.2505	
Elevation (SFT)*	487.529	

Convergence Angle	0	39	24.5071172
Scale Factor	0.999962833		
Elevation Adjust. Factor	0.9999766805		
Combined Adjust. Factor	0.9999395144		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	34	29.1405360
Longitude	93	10	24.6676116
Ellipsoid Height (M):	121.029		
Geoid Height (M):	-27.570		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN MOUNTAIN PINE, GO NORTH ON MAIN STREET FOR 0.10 MILES TO THE JUNCTION OF BLAKELY DAM ROAD AND THE STATION ON THE LEFT IN THE LAWN OF THE MOUNTAIN PINE FIRST ASSEMBLY OF GOD CHURCH. THE STATION IS 14.90 METERS NORTHEAST OF THE CENTER OF MOUNTAIN VIEW STREET, 12.10 METERS SOUTHWEST OF THE CENTER OF BLAKELY DAM ROAD, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS RUN BY CREW S5102 FROM USC&GS BM M 161 PID EJ1062.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	145	10.55	34.6
MK # 2	CORNER OF A ROCK HEAD WALL	110	18.20	59.7
MK # 3	LIGHT POLE	261	22.40	73.5

AZ Mark Station	260009A
Geodetic Azimuth	175 12 17
Grid Azimuth	175 51 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260009A	4/29/2002	AHTD	GARLAND	N/A	060978

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	611,859.4399
Easting (M)	292,355.1630
Elevation (M)*	
Northing (SFT)	2,007,408.8457
Easting (SFT)	959,168.5639
Elevation (SFT)*	
Convergence Angle	0 39 23.7836682
Scale Factor	0.999962253
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	34	16.3951752
Longitude	93	10	23.3750244
Ellipsoid Height (M):	116.337		
Geoid Height (M):	-27.561		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN MOUNTAIN PINE, GO SOUTH ON MAIN STREET FOR 0.14 MILES TO THE STATION ON THE LEFT. THE STATION IS 18.80 METERS NORTH OF THE CENTER OF FIFTH STREET, 8.40 METERS EAST OF THE CENTER OF MAIN STREET, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260009A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	234	21.70	71.2
MK # 2	POWER POLE	15	27.30	89.6
MK # 3				

AZ Mark Station	260009
Geodetic Azimuth	355 12 18
Grid Azimuth	355 51 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260010	4/29/2002	AHTD	GARLAND	227	060978

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	608,452.4189
Easting (M)	295,316.1720
Elevation (M)*	
Northing (SFT)	1,996,230.9777
Easting (SFT)	968,883.1410
Elevation (SFT)*	
Convergence Angle	0 38 17.9345770
Scale Factor	0.999957428
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	26.9184264
Longitude	93	8	25.7223768
Ellipsoid Height (M):	137.474		
Geoid Height (M):	-27.402		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 NORTH AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO NORTH ON STATE HIGHWAY 227 FOR 2.95 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 227 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260010 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	358	13.25	43.5
MK # 2	GAS METER	348	9.45	31.0
MK # 3	FIBER OPTICS CABLE MARKER	190	8.20	26.9

AZ Mark Station	260010A
Geodetic Azimuth	180 49 03
Grid Azimuth	181 27 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260010A	4/29/2002	AHTD	GARLAND	227	060978

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	608,017.2529
Easting (M)	295,305.1120
Elevation (M)*	
Northing (SFT)	1,994,803.2706
Easting (SFT)	968,846.8550
Elevation (SFT)*	
Convergence Angle	0 38 18.0709143
Scale Factor	0.999956826
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	12.7925772
Longitude	93	8	25.9659708
Ellipsoid Height (M):	128.790		
Geoid Height (M):	-27.394		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 NORTH AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO NORTH ON STATE HIGHWAY 227 FOR 2.68 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 227 AND 0.92 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260010A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	190	8.80	28.9
MK # 2				
MK # 3				

AZ Mark Station	260010
Geodetic Azimuth	0 49 03
Grid Azimuth	1 27 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260011	4/29/2002	AHTD	GARLAND	270	061059,CA0607

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	603,014.6329	
Easting (M)	297,866.1720	
Elevation (M)*	161.866	
Northing (SFT)	1,978,390.5081	
Easting (SFT)	977,249.2660	
Elevation (SFT)*	531.056	

Convergence Angle	0	37	20.6668753
Scale Factor	0.999950280		
Elevation Adjust. Factor	0.9999745985		
Combined Adjust. Factor	0.9999248798		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	29	31.3622844
Longitude	93	6	43.4021076
Ellipsoid Height (M):	134.626		
Geoid Height (M):	-27.220		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS. GO EAST OF U.S. HIGHWAY 270 FOR 1.18 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS WEST OF THE CENTER WALL IN U.S. HIGHWAY 270 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260011 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER BRIDGE	358	18.40	60.4
MK # 2				
MK # 3				

AZ Mark Station	260011A
Geodetic Azimuth	293 26 39
Grid Azimuth	294 04 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260011A	4/29/2002	AHTD	GARLAND	270	061059,CA0607

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	603,382.4419
Easting (M)	297,042.6380
Elevation (M)*	126.924
Northing (SFT)	1,979,597.2281
Easting (SFT)	974,547.3882
Elevation (SFT)*	416.417

Convergence Angle	0	37	38.8209319
Scale Factor			0.999950731
Elevation Adjust. Factor			0.9999800819
Combined Adjust. Factor			0.9999308138

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	29	43.0069812	
Longitude	93	7	15.8379816	
Ellipsoid Height (M):			99.651	
Geoid Height (M):			-27.256	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO EAST ON U.S. HIGHWAY 270 FOR 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.60 METERS NORTHWEST OF THE BACK OF A CONCRETE CURB, 11.50 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260011A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	232	16.50	54.1
MK # 2				
MK # 3				

AZ Mark Station	260011
Geodetic Azimuth	113 26 21
Grid Azimuth	114 04 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260012	4/30/2002	AHTD	GARLAND	270	061059,CA0607

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	604,974.0039
Easting (M)	294,342.1910
Elevation (M)*	147.899
Northing (SFT)	1,984,818.8778
Easting (SFT)	965,687.6716
Elevation (SFT)*	485.232
Convergence Angle	0 38 38.4546120
Scale Factor	0.999952734
Elevation Adjust. Factor	0.9999767904
Combined Adjust. Factor	0.9999295255

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	30	33.6839976
Longitude	93	9	2.3855472
Ellipsoid Height (M):	120.515		
Geoid Height (M):	-27.363		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO WEST ON U.S. HIGHWAY 270 FOR 1.53 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 10.20 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260012 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	245	2.85	9.4
MK # 2				
MK # 3				

AZ Mark Station	260012A
Geodetic Azimuth	90 04 26
Grid Azimuth	90 43 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260012A	4/30/2002	AHTD	GARLAND	270	061059,CA0607

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	604,967.8119
Easting (M)	294,836.2550
Elevation (M)*	149.674
Northing (SFT)	1,984,798.5629
Easting (SFT)	967,308.6133
Elevation (SFT)*	491.056
Convergence Angle	0 38 27.6127275
Scale Factor	0.999952734
Elevation Adjust. Factor	0.9999765118
Combined Adjust. Factor	0.9999292469

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 30 33.6628584
Longitude	93 8 43.0143396
Ellipsoid Height (M):	122.296
Geoid Height (M):	-27.350

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO WEST ON U.S. HIGHWAY 270 FOR 1.24 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.50 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270, 2.40 METERS NORTH OF A WOODEN FENCE LINE, AND 2.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260012A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CABLE POLE	92	14.20	46.6
MK # 2				
MK # 3				

AZ Mark Station	260012
Geodetic Azimuth	270 04 37
Grid Azimuth	270 43 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

Digital Levels by B&F 2/2013 from NGS A153 at HS Airport. Note: Levels do not tie with previous work completed West of the Ouachita River.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260013	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	605,120.1978	
Easting (M)	289,756.1330	
Elevation (M)*		
Northing (SFT)	1,985,298.5156	
Easting (SFT)	950,641.5797	
Elevation (SFT)*		

Convergence Angle	0	40	19.1152997
Scale Factor			0.999952856
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	30	36.7190352
Longitude	93	12	2.2361148
Ellipsoid Height (M):	106.168		
Geoid Height (M):	-27.477		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO WEST ON U.S. HIGHWAY 270 FOR 4.42 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23.20 METERS WEST OF THE CENTER OF A CONCRETE ENTRANCE TO A MINI STORAGE, 10.90 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270, 9.35 METERS SOUTH OF THE BACK OF A CONCRETE CURB, AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260013 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER YELLOW METAL BUI LDING	343	13.45	44.1
MK # 2				
MK # 3				

AZ Mark Station	260013A
Geodetic Azimuth	276 46 39
Grid Azimuth	277 26 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260013A	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	605,182.1109
Easting (M)	289,282.6210
Elevation (M)*	
Northing (SFT)	1,985,501.6422
Easting (SFT)	949,088.0657
Elevation (SFT)*	
Convergence Angle	0 40 29.5207638
Scale Factor	0.999952930
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	30	38.5476048
Longitude	93	12	20.8275696
Ellipsoid Height (M):	108.207		
Geoid Height (M):	-27.488		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 227 AND U.S. HIGHWAY 270, LOCATED ON THE WEST SIDE OF HOT SPRINGS, GO WEST ON U.S. HIGHWAY 270 FOR 4.75 MILES TO THE STATION ON THE RIGHT. THE STATION IS 23.70 METERS WEST OF THE CENTER OF AN ASPHALT DRIVE, 20.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260013A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	209	8.40	27.6
MK # 2				
MK # 3				

AZ Mark Station	260013
Geodetic Azimuth	96 46 28
Grid Azimuth	97 26 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260014	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	604,933.3669
Easting (M)	284,595.6780
Elevation (M)*	
Northing (SFT)	1,984,685.5546
Easting (SFT)	933,710.9869
Elevation (SFT)*	
Convergence Angle	0 42 12.2913097
Scale Factor	0.999952533
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	30	28.6459632
Longitude	93	15	24.4478232
Ellipsoid Height (M):	124.801		
Geoid Height (M):	-27.577		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 0.69 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.80 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260014 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	96	13.00	42.7
MK # 2	POWER POLE	139	15.10	49.5
MK # 3	END OF METAL GUARD RAIL	306	1.85	6.1

AZ Mark Station	260014A
Geodetic Azimuth	56 14 07
Grid Azimuth	56 56 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260014A	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	605,194.4499
Easting (M)	284,996.7700
Elevation (M)*	
Northing (SFT)	1,985,542.1244
Easting (SFT)	935,026.9029
Elevation (SFT)*	
Convergence Angle	0 42 3.5612035
Scale Factor	0.999952879
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	30	37.2780324
Longitude	93	15	8.8497324
Ellipsoid Height (M):	127.678		
Geoid Height (M):	-27.575		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 0.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.45 METERS WEST OF A CONCRETE ENTRANCE, 11.40 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260014A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	28	5.80	19.0
MK # 2				
MK # 3				

AZ Mark Station	260014
Geodetic Azimuth	236 14 15
Grid Azimuth	236 56 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260015	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	605,918.3979
Easting (M)	281,058.7880
Elevation (M)*	
Northing (SFT)	1,987,917.2771
Easting (SFT)	922,107.0403
Elevation (SFT)*	
Convergence Angle	0 43 30.1658397
Scale Factor	0.999953765
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	30	59.1807600
Longitude	93	17	43.5863364
Ellipsoid Height (M):	167.726		
Geoid Height (M):	-27.665		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 3.01 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.00 SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260015 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END METAL GUARD RAIL	34	2.40	7.9
MK # 2	SOUTHWEST CORNER BRIDGE	276	22.10	72.5
MK # 3				

AZ Mark Station	260015A
Geodetic Azimuth	89 22 47
Grid Azimuth	90 06 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260015A	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	605,917.5799	
Easting (M)	281,505.9880	
Elevation (M)*		
Northing (SFT)	1,987,914.5934	
Easting (SFT)	923,574.2290	
Elevation (SFT)*		

Convergence Angle	0	43	20.3528469
Scale Factor	0.999953771		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	30	59.3375220
Longitude	93	17	26.0534508
Ellipsoid Height (M):	162.088		
Geoid Height (M):	-27.656		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 2.74 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260015A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END CONCRETE HEAD WALL	84	12.30	40.4
MK # 2				
MK # 3				

AZ Mark Station	260015
Geodetic Azimuth	269 22 57
Grid Azimuth	270 06 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260016	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	606,444.2769
Easting (M)	276,870.3250
Elevation (M)*	
Northing (SFT)	1,989,642.5985
Easting (SFT)	908,365.3913
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	31	14.4957252
Longitude	93	20	28.0641408
Ellipsoid Height (M):	175.752		
Geoid Height (M):	-27.757		

Convergence Angle	0	45	2.2225350
Scale Factor	0.999954391		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 5.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260016 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	260016A
Geodetic Azimuth	75 10 44
Grid Azimuth	75 55 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260016A	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	606,573.1919
Easting (M)	277,384.6790
Elevation (M)*	
Northing (SFT)	1,990,065.5471
Easting (SFT)	910,052.9010
Elevation (SFT)*	
Convergence Angle	0 44 50.9726360
Scale Factor	0.999954572
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	31	18.8973804
Longitude	93	20	7.9639332
Ellipsoid Height (M):	176.640		
Geoid Height (M):	-27.750		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 5.42 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	260016
Geodetic Azimuth	255 10 56
Grid Azimuth	255 55 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260017	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	605,795.1609
Easting (M)	273,085.4290
Elevation (M)*	
Northing (SFT)	1,987,512.9571
Easting (SFT)	895,947.7783
Elevation (SFT)*	

Convergence Angle	0	46	25.0841529
Scale Factor	0.999953465		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	30	51.7974084
Longitude	93	22	56.1130896
Ellipsoid Height (M):	178.581		
Geoid Height (M):	-27.805		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 8.17 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260017 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	260017A
Geodetic Azimuth	318 38 17
Grid Azimuth	319 24 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260017A	4/30/2002	AHTD	GARLAND	270	061059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	606,101.7309
Easting (M)	272,822.7750
Elevation (M)*	
Northing (SFT)	1,988,518.7621
Easting (SFT)	895,086.0543
Elevation (SFT)*	

Convergence Angle	0	46	30.9382987
Scale Factor			0.999953865
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	31	1.6306752
Longitude	93	23	6.5726988
Ellipsoid Height (M):	181.981		
Geoid Height (M):	-27.817		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN ROYAL, GO WEST ON U.S. HIGHWAY 270 FOR 8.41 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.50 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "260017A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	260017
Geodetic Azimuth	138 38 11
Grid Azimuth	139 24 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260018	1/17/2003	AHTD	GARLAND	270	061101,061298

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	599,967.3469
Easting (M)	306,153.6700
Elevation (M)*	
Northing (SFT)	1,968,392.8706
Easting (SFT)	1,004,439.1657
Elevation (SFT)*	
Convergence Angle	0 34 18.1968260
Scale Factor	0.999946674
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	27	55.2729924
Longitude	93	1	17.3826588
Ellipsoid Height (M):	105.139		
Geoid Height (M):	-26.923		

Location Description

TO REACH FROM STATE HIGHWAY 270 AND HIGHWAY 128 (CARPENTER DAM ROAD) SOUTH OF HOT SPRINGS, STATION LOCATED IN SOUTH WESTERN CORNER OF INTERSECTION, NORTH OF EXIT RAMP, WEST OF HIGHWAY 128 AND SOUTH OF HIGHWAY 270 AND 0.50 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260018 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	HEADWALL	42	16.60	54.5
MK # 2	SOUTH WEST CORNER OF BRIDGE ON EAS T BOUND LANE	43	27.90	91.5
MK # 3	EDGE OF ASPH. EAST BOUND LANE	O	17.20	56.4

AZ Mark Station	260018A
Geodetic Azimuth	257 26 22
Grid Azimuth	258 00 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1, LROC
Ref Mon # 2	RUSSPORT
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260018A	1/17/2003	AHTD	GARLAND	270	061101,061298,061574

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	599,857.2659	
Easting (M)	305,635.2850	
Elevation (M)*	138.707	0.0121
Northing (SFT)	1,968,031.7132	
Easting (SFT)	1,002,738.4309	
Elevation (SFT)*	455.073	

Convergence Angle	0	34	29.5408364
Scale Factor	0.999946538		
Elevation Adjust. Factor	0.9999782329		
Combined Adjust. Factor	0.9999247721		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	27	51.5322216
Longitude	93	1	37.6510152
Ellipsoid Height (M):	105.123		
Geoid Height (M):	-26.937		

Location Description

TO REACH FROM STATE HIGHWAY 128 AND HIGHWAY 270, SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 270 0.30 MILES TO THE STATION ON THE RIGHT. 3.0 METERS EAST OF A NET WIRE FENCE WITH ONE STRAN BARB, 1.4 METERS NORTH OF A GUARD RAIL AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260018A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EDGE OF CONCRET	O	1.35	4.4
MK # 2	HEAD WALL	215	3.10	10.2
MK # 3				

AZ Mark Station	260018
Geodetic Azimuth	77 26 10
Grid Azimuth	78 00 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1, LROC
Ref Mon # 2	RUSSPORT
Ref Mon # 3	AHTD MON 1

Comments

Elevation based on three wire levels from NGS benchmark B140 during job 061101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260019	1/17/2003	AHTD	GARLAND	290	061101

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	595,228.8649
Easting (M)	306,191.3600
Elevation (M)*	
Northing (SFT)	1,952,846.7009
Easting (SFT)	1,004,562.8203
Elevation (SFT)*	
Convergence Angle	0 34 16.3342710
Scale Factor	0.999941356
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 25 21.5073480
Longitude	93 1 14.0548296
Ellipsoid Height (M):	117.243
Geoid Height (M):	-26.839

Location Description

TO REACH FROM U.S. STATE HIGHWAY 128 AND STATE HIGHWAY 290, SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 290 0.30 MILES TO THE STATION ON THE RIGHT. 1.95 METERS EAST OF A NET WIRE FENCE WITH ONE STRAN BARB, 10.90 METERS WEST OF THE CENTER OF THE HIGHWAY AND 1.70 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260019 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	200	6.10	20.0
MK # 2				
MK # 3				

AZ Mark Station	260019A
Geodetic Azimuth	1 26 47
Grid Azimuth	2 01 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1, LROC
Ref Mon # 2	RUSSPORT
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260019A	1/17/2003	AHTD	GARLAND	290	061101

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	595,613.0559
Easting (M)	306,204.8930
Elevation (M)*	
Northing (SFT)	1,954,107.1676
Easting (SFT)	1,004,607.2198
Elevation (SFT)*	
Convergence Angle	0 34 16.1215877
Scale Factor	0.999941767
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	25	33.9799368
Longitude	93	1	13.6748280
Ellipsoid Height (M):	111.478		
Geoid Height (M):	-26.846		

Location Description

TO REACH FROM U.S. STATE HIGHWAY 128 AND STATE HIGHWAY 290, SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 290 0.05 MILES TO THE STATION ON THE RIGHT. 1.50 METERS EAST OF A WHITE WOODEN THREE RAIL FENCE, 10.75 METERS WEST OF THE CENTER OF THE HIGHWAY AND 1.30 METERS WEST 0F A WITNESS POST. THE STATION IS A STAMDARD 64mm CAP STAMPED "260019A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	HEAD WALL	162	6.40	21.0
MK # 2	POWER POLE	352	17.10	56.1
MK # 3				

AZ Mark Station	260019
Geodetic Azimuth	181 26 47
Grid Azimuth	182 01 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1, LROC
Ref Mon # 2	RUSSPORT
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260020 RESET	4/10/2003	AHTD	GARLAND	70	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	604,286.5663	0.0010
Easting (M)	308,834.6745	0.0010
Elevation (M)*		
Northing (SFT)	1,982,563.5096	
Easting (SFT)	1,013,235.0946	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	30	16.2990180	
Longitude	92	59	33.9750708	
Ellipsoid Height (M):	129.378			0.0030
Geoid Height (M):	-27.048			0.0030

Convergence Angle	0	33	20.3205621
Scale Factor	0.999952040		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND HIGHWAY 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 FOR 2.6 MILES TO THE STATION ON THE RIGHT, SOUTH OF THE SERVICE ROAD AND NEXT TO A 5 STRAN BARB WIRE FENCE. THE STATION IS 11.0 METERS SOUTH OF THE CENTERLINE OF THE SERVICE ROAD AND NORTH 1.05 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ""260020 2003"" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND."

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260020A (2022)
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

EXISTING 260020 REBAR FOUND WITH CAP REMOVED. SET NEW CAP AND RE-TRACKED ON 10-17-22.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260020A	4/10/2003	AHTD	GARLAND	70	260140,061330,061574,06157

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	604,316.2098	0.0030
Easting (M)	308,179.7942	0.0020
Elevation (M)*	137.899	
Northing (SFT)	1,982,660.7650	
Easting (SFT)	1,011,086.5415	
Elevation (SFT)*	452.423	

Convergence Angle	0	33	34.6951793
Scale Factor			0.999952070
Elevation Adjust. Factor			0.9999783596
Combined Adjust. Factor			0.9999304307

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	30	17.0543628
Longitude	92	59	59.6590080
Ellipsoid Height:			110.825
Grid Northing (Meters)			604,316.2159
Grid Easting (Meters)			308,179.7740

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	30	17.0541720	
Longitude	92	59	59.6582160	
Ellipsoid Height (M):			110.828	0.0000
Geoid Height (M):			-27.071	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 2.2 MILES TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS EAST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAN HOLE COVER	73	1.60	5.2
MK # 2	EDGE OF ASPH. EAST BOUND LANE		7.00	23.0
MK # 3	EDGE OF ASPH WEST BOUND LANE		7.50	24.6

AZ Mark Station	260031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

****OLD ELEV (137.8958 m) BY 3-WIRE LOOP FROM NGS R 79*****
Updated Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
**NOTE: USED ELEV. FROM LEVELS AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (DIFFERENCE IN GPS ELEV. & LEVELS DUE TO ROUNDING ERROR).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260020A (2022)	4/10/2003	AHTD	GARLAND	70	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	604,316.2123	0.0010
Easting (M)	308,179.7777	0.0010
Elevation (M)*		

Northing (SFT)	1,982,660.7732	
Easting (SFT)	1,011,086.4873	
Elevation (SFT)*		

Convergence Angle	0	33	34.6955420
Scale Factor	0.999952070		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	30	17.0542476
Longitude	92	59	59.6588640
Ellipsoid Height (M):	110.790		0.0030
Geoid Height (M):	-27.070		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND 70B (EXIT#2), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 2.2 MILES TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS EAST 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "260020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260020 RESET
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

THIS IS THE SAME GPS MONUMENT AS 260020A. A NEW DATA SHEET WAS CREATED TO PUBLISH A NEWLY TRACKED NAD 83 (2011) POSITION FROM STATIC WORK PERFORMED ON 10-17-22.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260021	4/10/2003	AHTD	GARLAND	N/A	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	609,661.6696	0.0030
Easting (M)	310,430.5535	0.0030
Elevation (M)*	206.182	
Northing (SFT)	2,000,198.3277	
Easting (SFT)	1,018,470.9076	
Elevation (SFT)*	676.448	

Convergence Angle	0	32	46.4307700
Scale Factor			0.999959347
Elevation Adjust. Factor			0.9999676444
Combined Adjust. Factor			0.9999269927

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	33	11.2315716
Longitude	92	58	33.4252992
Ellipsoid Height:			179.016
Grid Northing (Meters)			609,661.6789
Grid Easting (Meters)			310,430.5240

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	33	11.2312800	
Longitude	92	58	33.4241400	
Ellipsoid Height (M):			179.036	0.0160
Geoid Height (M):			-27.114	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND MILL CREEK ROAD, EAST OF HOT SPRINGS, GO NORTH ON MILL CREEK ROAD 2.7 MILES TO DENISE LANE, TURN LEFT ON DENISE LANE AND GO 1.2 MILES TO POWER LINE CROSSING, CONTINUE ON DENISE LANE 400 FEET TO A METAL GATE AND PASS THRU GATE FOR 200 FEET AND TURN LEFT ON TO ROAD THAT ACESSES THE POWER LINE RIGHT OF WAY, TURN RIGHT ON TO POWER LINE AND GO NORTHWEST (UP THE HILL) FOR 0.3 MILES, PAST A DEER STAND ON THE LEFT AND 3 POWER POLES FROM WHERE ROAD ACESSES THE POWER LINE, TO THE STATION ON THE RIGHT IN THE MIDDLE OF THE POWER LINE RIGHT OF WAY. THE STATION IS SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL POWER POLE	343	8.80	28.9
MK # 2	SAWED OFF WOODEN POWER POLE	309	7.80	25.6
MK # 3	SAWED OFF WOODEN POWER POLE	351	6.60	21.7

AZ Mark Station	260021A
Geodetic Azimuth	162 55 11
Grid Azimuth	163 27 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALI, AHTD HOPE
Ref Mon # 2	260001
Ref Mon # 3	LROC

Comments

3wire levels ran by S5105-S5111 in Job #R60140 from NGS R79 to K 103 in June 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260021 (2022)	4/10/2003	AHTD	GARLAND	N/A	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	609,661.6785	0.0010
Easting (M)	310,430.5407	0.0010
Elevation (M)*		
Northing (SFT)	2,000,198.3569	
Easting (SFT)	1,018,470.8656	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	33	11.2315644	
Longitude	92	58	33.4246440	
Ellipsoid Height (M):	178.994			0.0030
Geoid Height (M):	-27.121			0.0030

Convergence Angle	0	32	46.4310521
Scale Factor	0.999959347		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

SEE LOCATION DESCRIPTION FOR 260021

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260021A (2022)
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

SAME MONUMENT AS 260021 WITH NEWLY TRACKED POSITION FROM STATIC WORK PERFORMED ON 10-17-22

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260021A	4/10/2003	AHTD	GARLAND	N/A	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	609,162.3700	0.0030
Easting (M)	310,578.7747	0.0030
Elevation (M)*	183.605	
Northing (SFT)	1,998,560.2089	
Easting (SFT)	1,018,957.1967	
Elevation (SFT)*	602.378	

Convergence Angle	0	32	43.0725588
Scale Factor			0.999958642
Elevation Adjust. Factor			0.9999711872
Combined Adjust. Factor			0.9999298304

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	32	55.0741092
Longitude	92	58	27.4251468
Ellipsoid Height:			
Grid Northing (Meters)			609,162.3799
Grid Easting (Meters)			310,578.7460

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:	GEOID12B			
Latitude	34	32	55.0737960	
Longitude	92	58	27.4240200	
Ellipsoid Height (M):			156.494	0.0160
Geoid Height (M):			-27.097	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 70 AND MILL CREEK ROAD, EAST OF HOT SPRINGS, GO NORTH ON MILL CREEK ROAD FOR 2.7 MILES TO DENISE LANE, TURN LEFT ON DENISE LANE AND GO 1.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS NORTH 10.7 METERS FROM THE CENTERLINE OF A PRIVATE DRIVE AND EAST 6.5 METERS OF THE CENTERLINE OF DENISE LANE. THE STATION IS WEST 0.50 METERS OF A WITNESS POST AND IS A STANDARD 64mm CAP STAMPED "260021A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY	214	24.50	80.4
MK # 2	POWER POLE WITH GUY	212	29.80	97.8
MK # 3				

AZ Mark Station	260021
Geodetic Azimuth	342 55 14
Grid Azimuth	343 27 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALI, AHTD HOPE
Ref Mon # 2	260001
Ref Mon # 3	LROC

Comments

Elevation based on levels from 260021 by crew S5113 in May 2018 during job R60140.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260021A (2022)	4/10/2003	AHTD	GARLAND	N/A	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	609,162.3743	0.0010
Easting (M)	310,578.7699	0.0010
Elevation (M)*		

Northing (SFT)	1,998,560.2230	
Easting (SFT)	1,018,957.1809	
Elevation (SFT)*		

Convergence Angle	0	32	43.0726635
Scale Factor	0.999958642		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	32	55.0739364	
Longitude	92	58	27.4242072	
Ellipsoid Height (M):	156.444			0.0030
Geoid Height (M):	-27.103			0.0030

Location Description

SEE LOCATION DESCRIPTION FOR 260021A

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260021 (2022)
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

SAME MONUMENT AS 260021A WITH NEWLY TRACKED POSITION
FROM STATIC WORK PERFORMED ON 10-17-22

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260022	11/4/2004	AHTD	GARLAND	171	061156

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	595,098.1329
Easting (M)	311,159.9880
Elevation (M)*	
Northing (SFT)	1,952,417.7910
Easting (SFT)	1,020,864.0606
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	25	18.8296824
Longitude	92	57	59.4199728
Ellipsoid Height (M):	73.027		
Geoid Height (M):	-26.691		

Convergence Angle	0	32	27.3989544
Scale Factor	0.999941269		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 290 AND 171 SOUTH OF HOT SPRINGS, GO NORTH ON HIGHWAY 171 FOR 0.20 MILES TO THE STATION ON THE LEFT. 10.4 METERS SOUTH OF THE NORTH EDGE OF THE ASPHALT, 1.85 METERS SOUTH OF THE NEAR EDGE OF THE ASPHALT AND 7.60 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260022 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	260022A
Geodetic Azimuth	007 00 31
Grid Azimuth	007 32 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC
Ref Mon # 2	UAM AFRC
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260022A	11/4/2004	AHTD	GARLAND	171	061156

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	595,343.0539
Easting (M)	311,192.4480
Elevation (M)*	
Northing (SFT)	1,953,221.3360
Easting (SFT)	1,020,970.5565
Elevation (SFT)*	

Convergence Angle	0	32	26.7381341
Scale Factor	0.999941530		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	25	26.7881304
Longitude	92	57	58.2392844
Ellipsoid Height (M):	70.604		
Geoid Height (M):	-26.694		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 290 AND 171 SOUTH OF HOT SPRINGS, GO NORTH ON HIGHWAY 171 FOR 0.30 MILES CROSSING A BRIDGE OVER "COPPER CREEK" TO THE STATION. 5.60 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 5.05 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "260022A 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260022
Geodetic Azimuth	187 00 32
Grid Azimuth	187 32 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC
Ref Mon # 2	UAM AFRC
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260023	6/4/2009	AHTD	GARLAND	5	061259,061428,061438

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	614,017.5869	
Easting (M)	311,701.0720	
Elevation (M)*	159.074	
Northing (SFT)	2,014,489.3664	
Easting (SFT)	1,022,639.2671	
Elevation (SFT)*	521.895	

Convergence Angle	0	32	19.4382930
Scale Factor	0.999965796		
Elevation Adjust. Factor	0.9999750367		
Combined Adjust. Factor	0.9999408336		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	35	32.9792316
Longitude	92	57	45.1966500
Ellipsoid Height (M):	131.997		
Geoid Height (M):	-27.071		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 FOR 1.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 24.5 FEET OF THE CENTERLINE OF THE HIGHWAY, 27.0 FEET SOUTHWEST OF THE CENTERLINE OF A GRAVEL DRIVE AND NORTH 2.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260023 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	217	39.93	131.0
MK # 2	SOUTHWEST GATE POST	109	33.22	109.0
MK # 3				

AZ Mark Station	260023A
Geodetic Azimuth	28 22 01
Grid Azimuth	28 54 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	DQUA, CSAL

Comments

Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260023A	6/4/2009	AHTD	GARLAND	5	061259,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	614,342.2010	
Easting (M)	311,880.3110	
Elevation (M)*	158.774	
Northing (SFT)	2,015,554.3711	
Easting (SFT)	1,023,227.3203	
Elevation (SFT)*	520.912	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	35	43.5681312	
Longitude	92	57	38.2825584	
Ellipsoid Height (M):	131.697			
Geoid Height (M):	-27.076			

Convergence Angle	0	32	15.5685404	
Scale Factor	0.999966297			
Elevation Adjust. Factor	0.9999750838			
Combined Adjust. Factor	0.9999413816			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 FOR 1.7 MILES TO THE STATION MARK ON THE LEFT, WEST 20.0 FEET OF THE CENTERLINE OF THE HIGHWAY, 72.0 FEET NORTH NORTHEAST OF THE CENTERLINE OF HARDWOOD HILLS CIR AND EAST 2.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260023A 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END PLASTIC CULVERT	300	0.76	2.5
MK # 2	POWER POLE	242	13.96	45.8
MK # 3				

AZ Mark Station	260023
Geodetic Azimuth	208 22 05
Grid Azimuth	208 54 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	DQUA, CSAL

Comments

Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260024	6/4/2009	AHTD	GARLAND	5	061259,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	615,312.1689	
Easting (M)	314,865.9340	
Elevation (M)*	148.563	
Northing (SFT)	2,018,736.6741	
Easting (SFT)	1,033,022.6518	
Elevation (SFT)*	487.412	

Convergence Angle	0	31	10.1854965	
Scale Factor			0.999967844	
Elevation Adjust. Factor			0.9999766861	
Combined Adjust. Factor			0.9999445309	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	36	15.9390324	
Longitude	92	55	41.4625980	
Ellipsoid Height (M):	121.530			
Geoid Height (M):	-27.030			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO SOUTH ON HIGHWAY 5 FOR 168.0 FEET TO THE STATION MARK ON THE RIGHT, NORTHWEST 36.0 FEET OF THE CENTERLINE OF THE HIGHWAY, 33.0 FEET SOUTHWEST OF THE CENTERLINE OF A DRIVE AND IN FRONT OF THE MASONIC TEMPLE BUILDING AND SOUTHWEST 9.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260024 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER OF A BLOCK BLD	352	44.20	145.0
MK # 2	POWER POLE WITH A LIGHT AND A GUY WI	20	53.34	175.0
MK # 3				

AZ Mark Station	260024A
Geodetic Azimuth	238 40 57
Grid Azimuth	239 12 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	DQUA, CSAL

Comments

Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260024A	6/4/2009	AHTD	GARLAND	5	061259,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	615,047.1919	
Easting (M)	314,421.3940	
Elevation (M)*	150.648	
Northing (SFT)	2,017,867.3288	
Easting (SFT)	1,031,564.1901	
Elevation (SFT)*	494.252	

Convergence Angle	0	31	19.8973541	
Scale Factor	0.999967425			
Elevation Adjust. Factor	0.9999763589			
Combined Adjust. Factor	0.9999437847			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	36	7.2089532	
Longitude	92	55	58.8147852	
Ellipsoid Height (M):	123.612			
Geoid Height (M):	-27.033			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO SOUTH ON HIGHWAY 5 FOR 0.3 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST 24.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND NORTHWEST 3.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260024A 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	235	12.19	40.0
MK # 2	FENCE CORNER	57	18.53	60.8
MK # 3				

AZ Mark Station	260024
Geodetic Azimuth	58 40 47
Grid Azimuth	59 12 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	DQUA, CSAL

Comments

Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. ELEV UPDATED FROM 494.242 TO 494.252 DURING JOB 061428 DERIVED FROM BMS 523 AND GPS POINT 260025A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260025	6/4/2009	AHTD	GARLAND	5	061259,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	616,625.4451
Easting (M)	317,175.6597
Elevation (M)*	146.138
Northing (SFT)	2,023,045.3145
Easting (SFT)	1,040,600.4769
Elevation (SFT)*	479.454

Convergence Angle	0	30	19.7036946
Scale Factor			0.999969952
Elevation Adjust. Factor			0.9999770667
Combined Adjust. Factor			0.9999470194

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	36	59.2273800
Longitude	92	54	11.2666680
Ellipsoid Height:			119.186
Grid Northing (Meters)			616,625.4447
Grid Easting (Meters)			317,175.6606

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	36	59.2273944
Longitude	92	54	11.2667040
Ellipsoid Height (M):	119.150		
Geoid Height (M):	-27.015		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 FOR 1.9 MILES TO THE STATION MARK ON THE LEFT ON TOP OF A LARGE HILL OVERLOOKING THE HIGHWAY, NORTH 66.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND SOUTH 1.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260025 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260025A
Geodetic Azimuth	276 29 54
Grid Azimuth	277 00 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	DQUA, CSAL

Comments

Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. UPDATE:ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260025A	6/4/2009	AHTD	GARLAND	5	061259,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	616,683.6033	
Easting (M)	316,702.3831	
Elevation (M)*	148.198	
Northing (SFT)	2,023,236.1218	
Easting (SFT)	1,039,047.7352	
Elevation (SFT)*	486.212	

Convergence Angle	0	30	30.1126767
Scale Factor			0.999970038
Elevation Adjust. Factor			0.9999767435
Combined Adjust. Factor			0.9999467822

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	37	0.9786864
Longitude	92	54	29.8644876
Ellipsoid Height:			121.170
Grid Northing (Meters)			616,683.5989
Grid Easting (Meters)			316,702.3820

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	37	0.9788304
Longitude	92	54	29.8644444
Ellipsoid Height (M):	121.175		
Geoid Height (M):	-27.028		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 128 AND STATE HIGHWAY 5, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 FOR 1.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 25.9 FEET OF THE CENTERLINE OF THE HIGHWAY, WEST 56.0 FEET OF A GATED FIELD ROAD AND NORTH 2.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260025A 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260025
Geodetic Azimuth	96 29 44
Grid Azimuth	97 00 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	DQUA, CSAL

Comments

Digital Levels ran by crew S5101 in July 2009 from 2nd order NGS marks 523 and W 104. UPDATE:ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260026	8/17/2011	AHTD	GARLAND	7	061329

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	605,952.6787	
Easting (M)	303,066.9840	
Elevation (M)*	191.553	
Northing (SFT)	1,988,029.7467	
Easting (SFT)	994,312.2633	
Elevation (SFT)*	628.453	

Convergence Angle	0	35	27.2416944	
Scale Factor	0.999954145			
Elevation Adjust. Factor	0.9999699400			
Combined Adjust. Factor	0.9999240864			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	31	8.4953748	
Longitude	93	3	20.7452052	
Ellipsoid Height (M):	164.439			
Geoid Height (M):	-27.117			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 1.1 MILES TO THE STATION MARK ON THE RIGHT, ACROSS THE ROAD FROM THE MAJESTIC HOTEL IN EDGE OF ASPHAULT PARKING LOT AND EAST 37 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 ½ CAP STAMPED "260026 2011" ON TOP OF A 2 FOOT REBAR DRIVEN FLUSH WITH THE ASPHAULT.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHTS	202	5.91	19.4
MK # 2	LIGHT POLE	332	5.21	17.1
MK # 3				

AZ Mark Station	260026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260026A	8/17/2011	AHTD	GARLAND	7	061329

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	605,686.0497	
Easting (M)	302,736.9716	
Elevation (M)*	194.718	
Northing (SFT)	1,987,154.9814	
Easting (SFT)	993,229.5477	
Elevation (SFT)*	638.837	

Convergence Angle	0	35	34.4229130
Scale Factor	0.999953787		
Elevation Adjust. Factor	0.9999694434		
Combined Adjust. Factor	0.9999232318		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	30	59.7320532
Longitude	93	3	33.5758968
Ellipsoid Height (M):	167.600		
Geoid Height (M):	-27.123		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 1.1 MILES TO WHITTINGTON AVE AND TURN LEFT AND GO 0.25 MILES TO THE MARK ON THE RIGHT, AT THE CORNER OF WHITTINGTON AND WALNUT, 28.8 FEET NORTHWEST OF THE CENTERLINE OF WHITTINGON AVE AND NORTHEAST 27.3 FEET OF THE CENTERLINE OF WALNUT STREET. THE STATION MARK IS A STANDARD 2 ½ CAP STAMPED "260026A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE	248	8.47	27.8
MK # 2	GAS METER	295	7.86	25.8
MK # 3	FIRE HYDRANT	111	16.34	53.6

AZ Mark Station	260026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260027	8/17/2011	AHTD	GARLAND	7	061329

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,493.3959	
Easting (M)	306,926.7169	
Elevation (M)*	216.821	
Northing (SFT)	1,999,646.2497	
Easting (SFT)	1,006,975.4037	
Elevation (SFT)*	711.353	

Convergence Angle	0	34	3.3133715
Scale Factor	0.999959060		
Elevation Adjust. Factor	0.9999659749		
Combined Adjust. Factor	0.9999250363		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	33	4.6652148
Longitude	93	0	50.7903732
Ellipsoid Height (M):	189.748		
Geoid Height (M):	-27.073		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 4.55 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 28.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 10.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE /W TRANSFORMER	41	8.66	28.4
MK # 2	FIRE HYDRANT	296	21.09	69.2
MK # 3				

AZ Mark Station	260027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED). ELEV. FROM DIGITAL LEVELS ON THIS POINT USED AS CONSTRAINT IN FINAL STATIC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260027A	8/17/2011	AHTD	GARLAND	7	061329

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,144.7718	
Easting (M)	306,553.1060	
Elevation (M)*	205.695	
Northing (SFT)	1,998,502.4721	
Easting (SFT)	1,005,749.6486	
Elevation (SFT)*	674.851	

Convergence Angle	0	34	11.4388968
Scale Factor	0.999958562		
Elevation Adjust. Factor	0.9999677208		
Combined Adjust. Factor	0.9999262842		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	32	53.2313304	
Longitude	93	1	5.3082588	
Ellipsoid Height (M):	178.619			
Geoid Height (M):	-27.076			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70, 270, AND 7, IN HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 4.2 MILES TO THE MARK ON THE LEFT, 66.6 FEET SOUTHWEST OF THE CENTERLINE OF AN ASPHAULT DRIVE TO THE PENTECOSTAL CHURCH, NORTHWEST 20.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 16.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260027A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	129	14.63	48.0
MK # 2	MAN HOLE	80	2.93	9.6
MK # 3				

AZ Mark Station	260027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED). ELEV. FROM DIGITAL LEVELS ON THIS POINT USED AS CONSTRAINT IN FINAL STATIC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260028	8/17/2011	AHTD	GARLAND	7	061329,061428,061438

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	612,694.7383	
Easting (M)	309,040.2177	
Elevation (M)*	188.948	
Northing (SFT)	2,010,149.3206	
Easting (SFT)	1,013,909.4476	
Elevation (SFT)*	619.906	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	34	49.2264624	
Longitude	92	59	29.1098364	
Ellipsoid Height (M):	161.826			
Geoid Height (M):	-27.099			

Convergence Angle	0	33	17.5975357	
Scale Factor	0.999963755			
Elevation Adjust. Factor	0.9999703488			
Combined Adjust. Factor	0.9999341049			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 AND 7, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 0.6 MILES TO THE MARK ON THE LEFT, 10.6 FEET NORTH OF A 6 FOOT CHAINLINK FENCE WITH 3 STRANS OF BARB WIRE AND SOUTH 23.6 FEET OF THE EDGE OF THE ASPHAULT HIGHWAY. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260028 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/LIGHT & GUY	110	17.37	57.0
MK # 2				
MK # 3				

AZ Mark Station	260028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260028A	8/17/2011	AHTD	GARLAND	7	061329,061428,061438

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	612,960.4842	
Easting (M)	308,584.9711	
Elevation (M)*	204.809	
Northing (SFT)	2,011,021.1886	
Easting (SFT)	1,012,415.8594	
Elevation (SFT)*	671.945	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	34	57.7069248	
Longitude	92	59	47.0733180	
Ellipsoid Height (M):	177.667			
Geoid Height (M):	-27.119			

Convergence Angle	0	33	27.6515291	
Scale Factor	0.999964147			
Elevation Adjust. Factor	0.9999678598			
Combined Adjust. Factor	0.9999320079			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 AND 7, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 7 FOR 0.9 MILES TO THE MARK ON THE LEFT, 84.6 FEET SOUTHEAST OF AN ASPHAULT TURN IN, AND SOUTHWEST 39.0 FEET OF THE EDGE OF THE ASPHAULT HIGHWAY. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260028A 2011" ON TOP OF A 1 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD R/W MARKER 3228	137	32.92	108.0
MK # 2				
MK # 3				

AZ Mark Station	260028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. BASED OFF OF DIGITAL LEVELS BY S5101 IN JULY OF 2009 FROM 2ND NGS ORDER BM'S W 104 & 523 FOR JOB #061259 COMBINED W/DIGITAL LEVELS BY B&F ENGINEERING IN DEC. OF 2011 FROM 2ND ORDER BM'S HOT SPRINGS BM, Y 58, & 607 HS (*NOTE: Y 58, 523, & W 104 ALL AGREED & WERE HELD FIXED, HOT SPRINGS BM & 607 HS DID NOT AGREE AND WERE NOT HELD FIXED)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260029	8/17/2011	AHTD	GARLAND	190	060432,061309

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	595,582.5940	
Easting (M)	299,173.3681	
Elevation (M)*	139.171	
Northing (SFT)	1,954,007.2271	
Easting (SFT)	981,537.9585	
Elevation (SFT)*	456.597	

Convergence Angle	0	36	50.2440299
Scale Factor	0.999941656		
Elevation Adjust. Factor	0.9999781600		
Combined Adjust. Factor	0.9999198173		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	25	30.6312960
Longitude	93	5	49.0455744
Ellipsoid Height (M):	112.009		
Geoid Height (M):	-27.149		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 190 (AMITY ROAD), SOUTH OF HOT SPRINGS, GO WEST ON HIGHWAY 190 0.1 MILES TO THE MARK ON THE LEFT, SOUTH OF THE CENTERLINE OF THE HIGHWAY 19.4 FEET AND EAST 62 FEET OF THE CENTERLINE OF CORENEA CIRCLE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260029 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGNAL POLE	85	15.24	50.0
MK # 2				
MK # 3				

AZ Mark Station	260029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260029A	8/17/2011	AHTD	GARLAND	7	060432,061309

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	594,977.3217	
Easting (M)	299,059.1774	
Elevation (M)*	128.429	
Northing (SFT)	1,952,021.4296	
Easting (SFT)	981,163.3179	
Elevation (SFT)*	421.355	

Convergence Angle	0	36	52.6047152
Scale Factor	0.999941012		
Elevation Adjust. Factor	0.9999798457		
Combined Adjust. Factor	0.9999208589		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	25	10.9487064
Longitude	93	5	53.2634136
Ellipsoid Height (M):	101.277		
Geoid Height (M):	-27.140		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 190 (AMITY ROAD), SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 0.39 MILES TO THE MARK ON THE RIGHT, WEST OF THE CENTERLINE OF THE HIGHWAY 28.0 FEET AND SOUTH 85.4 FEET OF THE CENTERLINE OF TRABECCA CIR AND EAST 9.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260029A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/GUY	192	19.51	64.0
MK # 2				
MK # 3				

AZ Mark Station	260029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260030	8/18/2011	AHTD	GARLAND	7	061309,060432,061440

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	591,868.7562	
Easting (M)	297,377.1782	
Elevation (M)*	160.767	
Northing (SFT)	1,941,822.7443	
Easting (SFT)	975,644.9588	
Elevation (SFT)*	527.450	

Convergence Angle	0	37	28.7281036
Scale Factor	0.999937832		
Elevation Adjust. Factor	0.9999747710		
Combined Adjust. Factor	0.9999126046		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	23	29.4759420
Longitude	93	6	57.8051136
Ellipsoid Height (M):	133.639		
Geoid Height (M):	-27.118		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290 , SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 2.35 MILES TO THE MARK ON THE RIGHT, NORTH OF THE CENTERLINE OF THE HIGHWAY 34.5 FEET AND SOUTH 8.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "260030 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	270	8.17	26.8
MK # 2	CMP	35	9.64	31.6
MK # 3				

AZ Mark Station	300007
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260031	8/8/2011	AHTD	GARLAND	70	061330

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	604,331.3229	
Easting (M)	308,904.7547	
Elevation (M)*	155.245	
Northing (SFT)	1,982,710.3485	
Easting (SFT)	1,013,465.0160	
Elevation (SFT)*	509.334	

Convergence Angle	0	33	18.7924964
Scale Factor	0.999952099		
Elevation Adjust. Factor	0.9999756375		
Combined Adjust. Factor	0.9999277377		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	30	17.7735276
Longitude	92	59	31.2448740
Ellipsoid Height (M):	128.215		
Geoid Height (M):	-27.031		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO WEST ON 70 0.9 MILES TO THE MARK IN THE MEDIAN, 17.2 FEET NORTH OF THE NORTH EDGE OF THE EAST BOUND LANE AND SOUTH 1.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260031 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260032	8/8/2011	AHTD	GARLAND	70	061330

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	605,155.4879	
Easting (M)	312,380.0052	
Elevation (M)*	178.436	
Northing (SFT)	1,985,414.2966	
Easting (SFT)	1,024,866.7337	
Elevation (SFT)*	585.418	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	30	45.5918652	
Longitude	92	57	15.3123984	
Ellipsoid Height (M):	151.497			
Geoid Height (M):	-26.942			

Convergence Angle	0	32	2.7123557	
Scale Factor	0.999953214			
Elevation Adjust. Factor	0.9999719984			
Combined Adjust. Factor	0.9999252137			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON 70 0.95 MILES TO BRATTON DRIVE AND TURN LEFT (NORTH) AND GO 0.5 MILES TO THE MARK ON THE RIGHT, 20.7 FEET SOUTH OF THE CENTERLINE OF THE ROAD. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260032 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/GUY & TRANSFOR MER	225	11.06	36.3
MK # 2	NORTHEAST CORNER METAL BUILDING	187	21.55	70.7
MK # 3				

AZ Mark Station	260032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260032A	8/8/2011	AHTD	GARLAND	70	061330

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	604,692.6482	
Easting (M)	312,730.6815	
Elevation (M)*	165.526	
Northing (SFT)	1,983,895.7966	
Easting (SFT)	1,026,017.2442	
Elevation (SFT)*	543.063	

Convergence Angle	0	31	54.9233547
Scale Factor	0.999952614		
Elevation Adjust. Factor	0.9999740242		
Combined Adjust. Factor	0.9999266395		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	30	30.6774108
Longitude	92	57	1.3957812
Ellipsoid Height (M):	138.614		
Geoid Height (M):	-26.920		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO WEST ON HIGHWAY 70 1.5 MILES TO THE MARK ON THE LEFT, 36 FEET NORTHEAST OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260032A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	10	27.10	88.9
MK # 2				
MK # 3				

AZ Mark Station	260032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260033	8/8/2011	AHTD	GARLAND	70	061330, CA0606

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	607,450.3607	
Easting (M)	316,999.9357	
Elevation (M)*	196.035	
Northing (SFT)	1,992,943.3917	
Easting (SFT)	1,040,023.9557	
Elevation (SFT)*	643.157	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	32	1.4271072	
Longitude	92	54	14.9833764	
Ellipsoid Height (M):	169.171			
Geoid Height (M):	-26.862			

Convergence Angle	0	30	21.7838816
Scale Factor	0.999956345		
Elevation Adjust. Factor	0.9999692367		
Combined Adjust. Factor	0.9999255831		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 4.7 MILES TO THE MARK ON THE LEFT, 5.0 FEET NORTHWEST OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE AND SOUTHEAST 12 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260033 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	337	4.15	13.6
MK # 2				
MK # 3				

AZ Mark Station	260033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260033A	8/8/2011	AHTD	GARLAND	70	061330, CA0606

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	607,750.4887
Easting (M)	317,597.5886
Elevation (M)*	208.961
Northing (SFT)	1,993,928.0617
Easting (SFT)	1,041,984.7553
Elevation (SFT)*	685.567
Convergence Angle	0 30 8.7243264
Scale Factor	0.999956764
Elevation Adjust. Factor	0.9999672083
Combined Adjust. Factor	0.9999239737

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	32	11.3376876
Longitude	92	53	51.6498540
Ellipsoid Height (M):	182.107		
Geoid Height (M):	-26.854		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 5.2 MILES TO THE MARK ON THE RIGHT, IN FRONT OF THE AHTD REST AREA, 4.3 FEET SOUTH SOUTHEAST OF THE SOUTH EDGE OF THE PAVEMENT FOR THE EAST BOUND LANE. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260033A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER HYDRANT	170	14.11	46.3
MK # 2				
MK # 3				

AZ Mark Station	260033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330. **NOTE: USED ELEV. FROM LEVELS AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (DIFFERENCE IN GPS ELEV. & LEVELS DUE TO ROUNDING ERROR).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260034	8/8/2011	AHTD	GARLAND	70	061330, CA0606

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,837.0770	
Easting (M)	322,375.4399	
Elevation (M)*	167.940	
Northing (SFT)	2,000,773.8101	
Easting (SFT)	1,057,660.0891	
Elevation (SFT)*	550.984	

Convergence Angle	0	28	24.2343167	
Scale Factor	0.999959749			
Elevation Adjust. Factor	0.9999736454			
Combined Adjust. Factor	0.9999333955			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	33	20.3729112	
Longitude	92	50	44.9574324	
Ellipsoid Height (M):	141.143			
Geoid Height (M):	-26.801			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 8.6 MILES TO THE MARK ON THE LEFT, 5.5 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE, 33.4 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 369 AND SOUTH 51.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260034 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260034A	8/8/2011	AHTD	GARLAND	70	061330, CA0606

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,881.1758	
Easting (M)	322,847.8727	
Elevation (M)*	155.622	
Northing (SFT)	2,000,918.4909	
Easting (SFT)	1,059,210.0623	
Elevation (SFT)*	510.569	

Convergence Angle	0	28	13.8705527
Scale Factor	0.999959817		
Elevation Adjust. Factor	0.9999755785		
Combined Adjust. Factor	0.9999353964		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	33	21.9303144
Longitude	92	50	26.4404832
Ellipsoid Height (M):	128.844		
Geoid Height (M):	-26.792		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 8.9 MILES TO THE MARK ON THE LEFT, 4.0 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE, AND SOUTH 46.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "260034A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF HEADWALL	302	5.33	17.5
MK # 2				
MK # 3				

AZ Mark Station	260034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260035	7/14/2014	AHTD	GARLAND	7	061438

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	623,804.4991	0.0060
Easting (M)	301,760.2274	0.0058
Elevation (M)*	226.400	
Northing (SFT)	2,046,598.5941	
Easting (SFT)	990,025.0127	
Elevation (SFT)*	742.780	

Convergence Angle	0	36	0.0194786	
Scale Factor			0.999981789	
Elevation Adjust. Factor			0.9999644718	
Combined Adjust. Factor			0.9999462614	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	40	47.3685960	
Longitude	93	4	19.3093104	
Ellipsoid Height (M):			198.827	0.0104
Geoid Height (M):			-27.588	

Location Description

TO REACH FROM THE JUNCTION OF HIGHWAY 298 AND HIGHWAY 7 IN BLUE SPRINGS. GO NORTH ON HIGHWAY 7 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, 54.8 FT. WEST OF THE CENTERLINE OF HIGHWAY 7, AND 98.4 FT. NORTH OF A GRAVEL DRIVEWAY. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "260035 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	272	2.15	7.1
MK # 2				
MK # 3				

AZ Mark Station	260035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260035A	7/14/2014	AHTD	GARLAND	7	061438

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	623,451.5768	0.0067
Easting (M)	301,674.2942	0.0061
Elevation (M)*	229.377	
Northing (SFT)	2,045,440.7149	
Easting (SFT)	989,743.0802	
Elevation (SFT)*	752.546	

Convergence Angle	0	36	1.8274463
Scale Factor	0.999981164		
Elevation Adjust. Factor	0.9999640046		
Combined Adjust. Factor	0.9999451693		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	40	35.8869288
Longitude	93	4	22.5396084
Ellipsoid Height (M):	201.817		0.0114
Geoid Height (M):	-27.580		

Location Description

TO REACH FROM THE JUNCTION OF HIGHWAY 298 AND HIGHWAY 7 IN BLUE SPRINGS. GO SOUTH ON HIGHWAY 7 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, AND 36.4 FT. WEST OF THE CENTERLINE OF HIGHWAY 7. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "260035A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SE CORNER OF BUILDING	4	38.80	127.3
MK # 2	EAST POST OF BILLBOARD "COLEMAN'S ROCK SHOP AND CRYSTAL MINE"	318	7.70	25.3
MK # 3				

AZ Mark Station	260035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV IS BASED OFF OF 3RD ORDER DIGITAL LEVELS FROM AHTD GPS MON 260028A AND NGS BMS K103 AND L103 DURING JOB 061438 BY CREW SS102 IN JULY 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260036	7/12/2016	AHTD	GARLAND	7	061501

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	633,012.9604	0.0040
Easting (M)	301,630.1224	0.0040
Elevation (M)*	271.509	
Northing (SFT)	2,076,810.0209	
Easting (SFT)	989,598.1599	
Elevation (SFT)*	890.775	

Convergence Angle	0	36	5.0049948	
Scale Factor	0.999999148			
Elevation Adjust. Factor	0.9999573932			
Combined Adjust. Factor	0.9999565413			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	45	46.1373012	
Longitude	93	4	28.2169380	
Ellipsoid Height (M):	243.539			0.0140
Geoid Height (M):	-27.993			0.0140

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF THE PERRY/GARLAND COUNTY LINE AND STATE HIGHWAY 7, NORTH OF JESSIEVILLE, GO SOUTH ON HIGHWAY 7 FOR 0.8 MILES TO THE MARK ON THE LEFT, NOERTHEAST 15 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "260036 2016" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM T 103 BY S5112 IN JULY 2016 FOR JOB # 061501.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260036A	7/12/2016	AHTD	GARLAND	7	061501

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	633,228.1497	0.0040
Easting (M)	301,424.1522	0.0040
Elevation (M)*	273.961	
Northing (SFT)	2,077,516.0211	
Easting (SFT)	988,922.4060	
Elevation (SFT)*	898.822	

Convergence Angle	0	36	9.5876365	
Scale Factor			0.999999575	
Elevation Adjust. Factor			0.9999570084	
Combined Adjust. Factor			0.9999565834	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	45	53.0498124	
Longitude	93	4	36.4047492	
Ellipsoid Height (M):			245.972	0.0140
Geoid Height (M):			-28.004	0.0140

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF THE PERRY/GARLAND COUNTY LINE AND STATE HIGHWAY 7, NORTH OF JESSIEVILLE, GO SOUTH ON HIGHWAY 7 FOR 0.6 MILES TO THE MARK ON THE LEFT, NOERTHEAST 18.2 FEET OF THE CENTERLINE OF THE HIGHWAY, 27 FEET SOUTHEAST OF THE CENTERLINE OF AN ASPHALT TURN IN, 103.5 FEET NORTHWEST OF THE CENTERLINE OF AN ASPHALT TURNIN AND SOUTHWEST 55.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "260036A 2016" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	JESSIEVILLE CCC SIGN	70	66.30	217.5
MK # 2	NORTHWEST END OF A ROCK WALL	76	86.00	282.2
MK # 3				

AZ Mark Station	260036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM T 103 BY S5112 IN JULY 2016 FOR JOB # 061501.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260037	11/30/2020	ARDOT	GARLAND	RAND A	06X151

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	605,927.8521	0.0020
Easting (M)	305,399.6876	0.0020
Elevation (M)*		
Northing (SFT)	1,987,948.2948	
Easting (SFT)	1,001,965.4751	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	31	8.4610488	
Longitude	93	1	49.2763116	
Ellipsoid Height (M):	138.945		0.0060	
Geoid Height (M):	-27.186		0.0060	

Convergence Angle	0	34	36.0474065	
Scale Factor	0.999954144			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 SPUR AND EAST 70B (E GRAND AVE), NORTHEAST OF HOT SPRINGS, GO EAST ON E70B (E GRAND AVE) FOR 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 32.1' OF THE C/L OF THE HIGHWAY AT THE TOP OF A BLUFF AND WEST 94.4' OF THE C/L OF A DRIVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 260037" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260037A	11/30/2020	ARDOT	GARLAND	RAND A	06X151

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	605,984.2101	0.0020
Easting (M)	305,833.7671	0.0020
Elevation (M)*		

Northing (SFT)	1,988,133.1960	
Easting (SFT)	1,003,389.6176	
Elevation (SFT)*		

Convergence Angle	0	34	26.5343618
Scale Factor			0.999954225
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	31	10.4314548	
Longitude	93	1	32.2793436	
Ellipsoid Height (M):	149.630			0.0060
Geoid Height (M):	-27.174			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 SPUR AND E GRAND AVE, NORTHEAST OF HOT SPRINGS, GO EAST ON E GRAND AVE FOR 0.45 MILES TO THE MARK ON THE LEFT, NORTH 17" OF THE C/L OF E GRAND AVE.AND WEST 41.6' OF THE C/L OF A DRIVEWAY TO THE CITY OF LIFE CHURCH. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 260037A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	27	9.08	29.8
MK # 2	CITY LIFE CHURCH SIGN	81	28.41	93.2
MK # 3				

AZ Mark Station	260037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260038	6/14/2021	AHTD	Garland	227	061748

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	618,301.0655	0.0030
Easting (M)	293,071.3221	0.0040
Elevation (M)*		

Northing (SFT)	2,028,542.7457	
Easting (SFT)	961,518.1626	
Elevation (SFT)*		

Convergence Angle	0	39	9.6701097
Scale Factor	0.999972264		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	37	45.6971880
Longitude	93	9	58.1583132
Ellipsoid Height (M):	184.239		0.0170
Geoid Height (M):	-27.803		0.0170

Location Description

FROM INTERSECTION OF STATE HWY. 192 AND STATE HWY. 227, GO NORTH ON STATE HWY. 227 FOR 2.5 MILES TO MOUNTAIN PINE RD. ON THE RIGHT, TURN ON MOUNTAIN PINE RD. AND GO FOR 0.5 MILES TO 3 SISTERS SPRINGS RD., CONTINUE NORTHWEST ON 3 SISTERS SPRINGS RD. FOR 0.65 MILES TO THE STATION ON THE LEFT. 41.7' WEST OF A WHITE COMPOSIT FENCE

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	18	110.50	362.5
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260038A	6/14/2021	AHTD	Garland	227	061748

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	618,554.5132	0.0030
Easting (M)	293,192.0550	0.0040
Elevation (M)*		
Northing (SFT)	2,029,374.2654	
Easting (SFT)	961,914.2671	
Elevation (SFT)*		

Convergence Angle	0	39	7.0807026
Scale Factor	0.999972680		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	37	53.9663160
Longitude	93	9	53.5318164
Ellipsoid Height (M):	169.677		0.0170
Geoid Height (M):	-27.807		0.0170

Location Description

FROM INTERSECTION OF STATE HWY. 192 AND STATE HWY. 227, GO NORTH ON STATE HWY. 227 FOR 2.5 MILES TO MOUNTAIN PINE RD. ON THE RIGHT, TURN ON MOUNTAIN PINE RD. AND GO FOR 0.5 MILES TO 3 SISTERS SPRINGS RD., CONTINUE NORTHWEST ON 3 SISTERS SPRINGS RD. FOR 0.85 MILES TO THE STATION ON THE LEFT. 37.1' WEST OF THE CENTERLINE OF 3 SISTERS SPRINGS RD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE/ GY	8	12.70	41.7
MK # 2	FENCE CORNER	214	53.70	176.2
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260039	10/17/2022	ARDOT	GARLAND	NEW LOC	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	606,019.0377	0.0010
Easting (M)	309,725.1881	0.0010
Elevation (M)*		

Northing (SFT)	1,988,247.4595	
Easting (SFT)	1,016,156.7213	
Elevation (SFT)*		

Convergence Angle	0	33	1.1475049
Scale Factor	0.999954322		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	31	12.8008272
Longitude	92	58	59.7185472
Ellipsoid Height (M):	268.506		0.0030
Geoid Height (M):	-27.050		0.0030

Location Description

FROM THE INTERCHANGE OF HWY. 70 & 70B N.B. OVERPASS DIRECTLY OVER THE HWY. 70 MEDIAN FOLLOW THE NEWLY CONSTRUCTED ROUTE NORTH FOR APPROXIMATELY 1.30 MILES AND THE MARK IS LOCATED APPROXIMATELY 290 FEET LEFT OF CENTER OF THE NEWLY CONSTRUCTED ROADWAY AND ON TOP OF THE PEAK THAT CAN ONLY BE ACCESSED FROM PROMISE LAND DRIVE FROM THE WEST OF THE PEAK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260039A
Geodetic Azimuth	251° 09 ' 59"
Grid Azimuth	250° 36 ' 58"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260039A	10/17/2022	ARDOT	GARLAND	NEW LOC	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	605,831.8688	0.0010
Easting (M)	309,193.2176	0.0010
Elevation (M)*		

Northing (SFT)	1,987,633.3896	
Easting (SFT)	1,014,411.4147	
Elevation (SFT)*		

Convergence Angle	0	33	12.7815843
Scale Factor	0.999954066		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	31	6.5604468
Longitude	92	59	20.5051704
Ellipsoid Height (M):	263.939		0.0030
Geoid Height (M):	-27.063		0.0030

Location Description

FROM THE CENTER OF THE PROMISE LAND DRIVE OVERPASS DIRECTLY OVER THE CENTER OF THE NEWLY CONSTRUCTED ROADWAY GO WEST APPROXIMATELY 815 FEET TO THE INTERSECTION OF PROMISE LAND DRIVE AND TWO PRIVATE DRIVES, THEN STAY STRAIGHT AND THROUGH THE GATE OF THE PRIVATE DRIVE DIRECTLY AHEAD FOR AN APPROXIMATE DISTANCE OF 1,153 FEET WHERE THERE'S A ROUND TURNAROUND AT THE END OF THE DRIVE AND WHERE A TRAIL CONTINUES WEST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260039
Geodetic Azimuth	71° 10 ' 11"
Grid Azimuth	70° 36 ' 58"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260040	10/17/2022	ARDOT	GARLAND	NEW LOC	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	608,388.8643	0.0010
Easting (M)	309,859.7131	0.0010
Elevation (M)*		

Northing (SFT)	1,996,022.4656	
Easting (SFT)	1,016,598.0754	
Elevation (SFT)*		

Convergence Angle	0	32	58.6943282
Scale Factor	0.999957549		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	32	29.7489264
Longitude	92	58	55.3354536
Ellipsoid Height (M):	152.439		0.0030
Geoid Height (M):	-27.105		0.0030

Location Description

APPROXIMATELY 1,245 FEET NORTH OF THE DENISE LN. OVERPASS SET IN THE RIGHT TOP BANK OF THE NEWLY CONSTRUCTED ROADWAY.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260040A
Geodetic Azimuth	192° 51 ' 49"
Grid Azimuth	192° 18 ' 50"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260040A	10/17/2022	ARDOT	GARLAND	NEW LOC	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	607,924.9704	0.0010
Easting (M)	309,758.4503	0.0010
Elevation (M)*		

Northing (SFT)	1,994,500.5071	
Easting (SFT)	1,016,265.8490	
Elevation (SFT)*		

Convergence Angle	0	33	0.8192517
Scale Factor	0.999956906		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	32	14.6630256
Longitude	92	58	59.1320568
Ellipsoid Height (M):	140.790	0.0030	
Geoid Height (M):	-27.097	0.0030	

Location Description

APPROXIMATELY 312 FEET SOUTH OF THE DENISE LN. OVERPASS IN THE GRAVEL GORE/SHOULDER AREA OF THE S.B. EXIT RAMP

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260040
Geodetic Azimuth	12° 51 ' 51"
Grid Azimuth	12° 18 ' 50"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260041	10/17/2022	ARDOT	GARLAND	NEW LOC	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	612,356.2179	0.0010
Easting (M)	310,010.7047	0.0010
Elevation (M)*		

Northing (SFT)	2,009,038.6916	
Easting (SFT)	1,017,093.4537	
Elevation (SFT)*		

Convergence Angle	0	32	56.2144382
Scale Factor	0.999963264		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	34	38.5442724
Longitude	92	58	50.9046312
Ellipsoid Height (M):	145.705		0.0030
Geoid Height (M):	-27.209		0.0030

Location Description

APPROXIMATELY 570 FEET SOUTH OF THE CENTER OF THE ROUNDABOUT AT THE INTERSECTION OF HWY. 5 & HWY. 7 ALONG THE NEWLY CONSTRUCTED ROADWAY SET BEHIND THE EAST GUARDRAIL OF THE BRIDGE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260041A
Geodetic Azimuth	171° 05 ' 07"
Grid Azimuth	170° 32 ' 10"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260041A	10/17/2022	ARDOT	GARLAND	NEW LOC	R60140

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	611,947.5146	0.0010
Easting (M)	310,078.8327	0.0010
Elevation (M)*		
Northing (SFT)	2,007,697.8042	
Easting (SFT)	1,017,316.9703	
Elevation (SFT)*		

Convergence Angle	0	32	54.6324803	
Scale Factor	0.999962658			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	34	25.3022952	
Longitude	92	58	48.0781452	
Ellipsoid Height (M):	151.286		0.0030	
Geoid Height (M):	-27.195		0.0030	

Location Description

APPROXIMATELY 0.36 MILES SOUTH OF THE CENTER OF THE ROUNDABOUT AT THE INTERSECTION OF HWY. 5 & HWY. 7 ALONG THE NEWLY CONSTRUCTED ROADWAY SET IN THE EASTERN FORESLOPE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	260041
Geodetic Azimuth	351° 05 ' 05"
Grid Azimuth	350° 32 ' 10"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

ESTABLISHED IN THE FALL OF 2022 FOR CONSTRAINING UAV LiDAR WORK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260042	8/25/2022	ARDOT	GARLAND	HWY 70	BR2606

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	604,518.8892	0.0020
Easting (M)	312,024.2501	0.0020
Elevation (M)*		

Northing (SFT)	1,983,325.7223	
Easting (SFT)	1,023,699.5605	
Elevation (SFT)*		

Convergence Angle	0	32	10.3877736
Scale Factor	0.999952380		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	30	24.8247828	
Longitude	92	57	29.0260764	
Ellipsoid Height (M):	130.886			0.0060
Geoid Height (M):	-26.949			0.0060

Location Description

TO REACH FROM THE JCT. OF HWY 70 AND HWY 270 NEAR HOT SPRINGS, HEAD NORTH ON HWY 70 FOR 2.4 MILES, THEN TAKE EXIT 11A TO STAY ON HWY 70. CONTINUE ON HWY 70 FOR 0.9 MILES TO THE STATION ON THE RIGHT. THE STATION WILL BE ONTOP OF THE HILL IN FRONT OF THE LEARN AND PLAY ENRICHMENT ACADEMY. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "260042 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	133	8.60	28.2
MK # 2	GUY POLE	94	6.80	22.3
MK # 3				

AZ Mark Station	260042A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

LT:34.3025 LG:92.5729

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260042A	8/25/2022	ARDOT	GARLAND	HWY 70	BR2606

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	604,584.6668	0.0020
Easting (M)	311,597.0634	0.0020
Elevation (M)*		

Northing (SFT)	1,983,541.5277	
Easting (SFT)	1,022,298.0322	
Elevation (SFT)*		

Convergence Angle	0	32	19.7742431
Scale Factor	0.999952460		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	30	26.8293708
Longitude	92	57	45.7968924
Ellipsoid Height (M):	115.859	0.0060	
Geoid Height (M):	-26.965	0.0060	

Location Description

TO REACH FROM THE JCT. OF HWY 70 AND HWY 270 NEAR HOT SPRINGS, HEAD NORTH ON HWY 70 FOR 2.4 MILES, THEN TAKE EXIT 11A TO STAY ON HWY 70. CONTINUE ON HWY 70 FOR 0.65 MILES TO THE STATION ON THE LEFT. THE STATION WILL BE ONTOP OF A HILL AT THE CRESTVIEW CEMETARY. THE POINT IS 32.7FT S OF THE CENTER OF THE ROAD THROUGH THE CEMETARY. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "260042A 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH CORNER OF CRESTVIEW CEMETARY ROCK SIGN	224	13.50	44.3
MK # 2	LaLUMANDIER MONUMENT	201	37.80	124.0
MK # 3				

AZ Mark Station	260042
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

LT:34.3027 LG:92.5746

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260043	9/24/2025	ARDOT	Garland	7	061827

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	614,518.2836	0.0020
Easting (M)	306,953.1348	0.0020
Elevation (M)*	186.336	
Northing (SFT)	2,016,132.0688	
Easting (SFT)	1,007,062.0764	
Elevation (SFT)*	611.339	

Convergence Angle	0	34	3.8264865
Scale Factor	0.999966495		
Elevation Adjust. Factor	0.9999707586		
Combined Adjust. Factor	0.9999372546		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	34	35	47.7398436
Longitude	93	0	51.7071564
Ellipsoid Height (M):	158.988		0.0020
Geoid Height (M):	-27.342		0.0020

Location Description

To reach from the roundabout with Hwy 5 and Hwy 7 go North on Hwy 7 for 2.45 miles to the station on the Right/North. The station is 25.8' North of the centerline of Hwy 7 and 33.4' East of the center of a concrete driveway. The station mark is a standard 2 1/2 in. aluminium cap stamped "260043 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Guy Pole	37	6.90	22.6
MK # 2	Utility Marker	62	8.60	28.2
MK # 3	Combination Pole	322	19.10	62.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN OCT. 2025 FOR JOB #061827 FROM NGS PUBLISHED 2ND ORDER BM K 103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260043A	9/24/2025	ARDOT	Garland	7	061827

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	614,679.0412	0.0010
Easting (M)	306,555.7112	0.0020
Elevation (M)*	190.894	
Northing (SFT)	2,016,659.4877	
Easting (SFT)	1,005,758.1958	
Elevation (SFT)*	626.292	

Convergence Angle	0	34	12.5906825
Scale Factor	0.999966737		
Elevation Adjust. Factor	0.9999700434		
Combined Adjust. Factor	0.9999367814		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	34	35	52.8285876
Longitude	93	1	7.3661556
Ellipsoid Height (M):	163.530		0.0020
Geoid Height (M):	-27.356		0.0020

Location Description

To reach from the roundabout with Hwy 5 and Hwy 7 go North on Hwy 7 for 2.7 miles to the station on the Left/South. The station is 32.6' South of the centerline of Hwy 7 and 50.2' East of the center of Walnut Valley Rd. The station mark is a standard 2 1/2 in. aluminium cap stamped "260043A 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Light Pole	225	29.60	97.1
MK # 2	N edge of sign	152	6.30	20.7
MK # 3	18" Oak Tree	235	12.90	42.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN OCT. 2025 FOR JOB #061827 FROM NGS PUBLISHED 2ND ORDER BM K 103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260044	10/28/2025	AHTD	Garland	WHITTI	061922

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	605,933.9992	0.0020
Easting (M)	303,029.6034	0.0020
Elevation (M)*	191.226	0.0000
Northing (SFT)	1,987,968.4624	
Easting (SFT)	994,189.6238	
Elevation (SFT)*	627.379	

Convergence Angle	0	35	28.0577415
Scale Factor	0.999954120		
Elevation Adjust. Factor	0.9999699914		
Combined Adjust. Factor	0.9999241128		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	31	7.8766716
Longitude	93	3	22.2032376
Ellipsoid Height (M):	163.977	0.0000	
Geoid Height (M):	-27.249		

Location Description

FROM THE INTERSECTION OF STATE HWY. 7 AND STATE HWY. 70, GO NORTH ON STATE HWY 7 FOR 1.1 MILES TO WHITTINGTON AVE. TURN LEFT ON WHITTINGTON AVE. AND GO 100' TO THE STATION ON THE RIGHT. 100' WEST OF CENTERLINE OF HWY. 7, 81.5' SOUTHWEST OF A LIGHT POLE, 8.5' WEST OF THE SIDEWALK, 2' EAST OF A CONCRETE RETAINING WALL

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	OLD STEEL LIGHT POLE	354	6.90	22.6
MK # 2	24" MAGNOLIA TREE	205	21.20	69.6
MK # 3				

AZ Mark Station	260044A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHS
Ref Mon # 2	ARLR
Ref Mon # 3	ARGS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260044A	10/28/2025	AHTD	Garland	HWY.7	061922

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	606,289.6036	0.0020
Easting (M)	303,149.2116	0.0020
Elevation (M)*	195.044	0.0021
Northing (SFT)	1,989,135.1411	
Easting (SFT)	994,582.0384	
Elevation (SFT)*	639.907	

Convergence Angle	0	35	25.5134880
Scale Factor	0.999954595		
Elevation Adjust. Factor	0.9999693922		
Combined Adjust. Factor	0.9999239886		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	31	19.4568132
Longitude	93	3	17.6574168
Ellipsoid Height (M):	167.792	0.0000	
Geoid Height (M):	-27.252		

Location Description

FROM THE INTERSECTION OF STATE HWY. 7 AND STATE HWY. 70, GO NORTH ON STATE HWY 7 FOR 1.3 MILES TO THE STATION ON THE LEFT. 24.8' WEST OF THE CENTERLINE OF HWY. 7, 16.5' SOUTH OF A FIRE HYDRANT, 61.3' NORTHEAST OF THE NORTHEAST CORNER OF A 1 STORY BRICK BUILDING

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 3 GUY WIRES	32	15.70	51.5
MK # 2	LIGHT POLE	210	6.50	21.3
MK # 3				

AZ Mark Station	260044
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHS
Ref Mon # 2	ARLR
Ref Mon # 3	ARGS

Comments

ELEV. WAS EST BY DIGITAL LEVELS FROM BM 607 HS DURING JOB 061922 BY CREW S5113 IN OCT 2025.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260045	10/28/2025	AHTD	Garland	HWY. 70	061922

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	604,365.0648	0.0020
Easting (M)	303,976.4614	0.0020
Elevation (M)*	177.967	0.0016
Northing (SFT)	1,982,821.0501	
Easting (SFT)	997,296.1071	
Elevation (SFT)*	583.880	

Convergence Angle	0	35	6.9282940
Scale Factor	0.999952079		
Elevation Adjust. Factor	0.9999720720		
Combined Adjust. Factor	0.9999241523		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	30	17.2767204
Longitude	93	2	44.4512292
Ellipsoid Height (M):	150.770	0.0000	
Geoid Height (M):	-27.197		

Location Description

FROM THE INTERSECTION STATE HWY. 7 AND STATE HWY. 70. GO EAST ON HWY. 70 FOR 0.6 MILES TO THE STATION ON THE RIGHT. THE STATION IS AT THE SOUTHEAST CORNER OF HWY. 70 AND DUFO CT. 30.3' SOUTHEAST OF THE CENTERLINE OF HWY.70, 12' EAST OF THE CENTERLINE OF DUFO CT., 6' NORTH OF A DROP INLET.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	combination pole	177	3.90	12.8
MK # 2	northwest corner of carwash	286	13.80	45.3
MK # 3				

AZ Mark Station	260045A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHS
Ref Mon # 2	ARLR
Ref Mon # 3	ARGS

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM BM 8284 DURING JOB 061922 BY CREW S5113 IN OCT 2025.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260045A	10/28/2025	AHTD	Garland	HWY 70	061922

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	604,670.6500	0.0020
Easting (M)	304,225.8358	0.0020
Elevation (M)*	169.552	0.0021
Northing (SFT)	1,983,823.6242	
Easting (SFT)	998,114.2630	
Elevation (SFT)*	556.271	

Convergence Angle	0	35	1.5252651
Scale Factor	0.999952478		
Elevation Adjust. Factor	0.9999733925		
Combined Adjust. Factor	0.9999258718		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	30	27.2762244
Longitude	93	2	34.7976312
Ellipsoid Height (M):	142.357		0.0000
Geoid Height (M):	-27.195		

Location Description

FROM THE INTERSECTION OF STATE HWY 7 (CENTRAL AVE.) AND STATE HWY 70 (GRAND AVE.) GO EAST ON STATE HWY. 70 FOR 0.9 MILES TO THE STATION ON THE RIGHT. THE STATION IS IN THE DIVIDER ISLAND OF CRESCENT AVE. 47.5' SOUTHEAST OF HWY. 70, 23.7' SOUTHWEST OF THE CENTERLINE OF THE WEST BOUND CRESCENT AVE., 108' WEST OF A FIRE HYDRANT

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY WIRE	204	29.50	96.8
MK # 2	NORTHWEST CORNER OF 1 STORY BLOCK BUILDING	279	34.70	113.8
MK # 3				

AZ Mark Station	260045
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHS
Ref Mon # 2	ARLR
Ref Mon # 3	ARGS

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM BM 8284 DURING JOB 061922 BY CREW S5113 IN OCT 2025.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260046	11/4/2025	AHTD	Garland	HWY. 7	061922

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	602,298.1326	0.0020
Easting (M)	302,689.6050	0.0020
Elevation (M)*	179.035	
Northing (SFT)	1,976,039.7900	
Easting (SFT)	993,074.1457	
Elevation (SFT)*	587.383	

Convergence Angle	0	35	34.6928775
Scale Factor	0.999949451		
Elevation Adjust. Factor	0.9999719044		
Combined Adjust. Factor	0.9999213568		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	29	9.7704420
Longitude	93	3	34.0582428
Ellipsoid Height (M):	151.837	0.0080	
Geoid Height (M):	-27.198		

Location Description

FROM THE INTERSECTION OF STATE HWY. 7 AND STATE HWY 70. GO SOUTH ON STATE HWY. 7 FOR 1.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS IN THE NORTHWEST CORNER OF THE INTERSECTION OF STATE HWY. 7 AND OAKWOOD AVE. 28' WEST OF THE CENTERLINE OF STATE HWY. 7. 43' NORTH OF THE CENTERLINE OF OAKWOOD AVE., 1.5' EAST OF THE SIDEWALK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	233	5.50	18.0
MK # 2	IRON GATE	252	17.00	55.8
MK # 3				

AZ Mark Station	260046A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHS
Ref Mon # 2	ARLR
Ref Mon # 3	ARGS

Comments

ELEV EST. BY STATIC OBS. DURING JOB 061922 BY CREW S5102 IN NOV 2025

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
260046A	11/4/2025	AHTD	Garland	HWY. 7	061922

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	602,684.3229	0.0020
Easting (M)	302,770.4425	0.0020
Elevation (M)*	181.182	
Northing (SFT)	1,977,306.8160	
Easting (SFT)	993,339.3601	
Elevation (SFT)*	594.429	

Convergence Angle	0	35	33.0072799
Scale Factor	0.999949932		
Elevation Adjust. Factor	0.9999715674		
Combined Adjust. Factor	0.9999215008		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	29	22.3303956	
Longitude	93	3	31.0465836	
Ellipsoid Height (M):	153.980			0.0080
Geoid Height (M):	-27.202			

Location Description

FROM THE INTERSECTION OF STATE HWY. 7 AND STATE HWY 70. GO SOUTH ON STATE HWY. 7 FOR 1.2 MILES TO THE STATION ON THE LEFT. THE STATION IS IN THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HWY. 7 AND TRIVISTA ST. 29' EAST OF THE CENTERLINE OF STATE HWY. 7, 42' SOUTH OF THE CENTERLINE OF TRIVISTA ST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2 1/2' ROCK PILLAR	233	3.35	11.0
MK # 2	GUY WIRE	4	35.97	118.0
MK # 3				

AZ Mark Station	260046
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHS
Ref Mon # 2	ARLR
Ref Mon # 3	ARGS

Comments

ELEV EST. BY STATIC OBS. DURING JOB 061922 BY CREW S5102 IN NOV 2025

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270001	3/22/1994	AHTD	GRANT	291	001730

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	596,762.0069	
Easting (M)	346,928.0470	
Elevation (M)*	105.071	
Northing (SFT)	1,957,876.6843	
Easting (SFT)	1,138,213.1009	
Elevation (SFT)*	344.720	

Convergence Angle	0	19	23.5806597
Scale Factor	0.999943368		
Elevation Adjust. Factor	0.9999835112		
Combined Adjust. Factor	0.9999268801		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	26	21.5829096
Longitude	92	34	38.9709156
Ellipsoid Height (M):	77.939		
Geoid Height (M):	-27.132		

Location Description

FROM THE JCT. OF HWY. 190 AND HWY. 291 IN THE TOWN OF TULL, GO SOUTH ON HWY. 291 FOR 0.16 KM (0.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 6.30 METERS WEST OF THE CENTERLINE OF HWY. 291 AND 0.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "270001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	245	20.10	65.9
MK # 2	GAS METER	55	18.00	59.1
MK # 3	GAS METER	139	20.10	65.9

AZ Mark Station	270001A
Geodetic Azimuth	267 21 36.72115
Grid Azimuth	267 41 00.25848

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	MALEPORT
Ref Mon # 3	93620004

Comments

Cross Reference Job: RX0026

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270001A	3/22/1994	AHTD	GRANT	291	001730

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	596,746.6839	
Easting (M)	346,549.2700	
Elevation (M)*	105.211	
Northing (SFT)	1,957,826.4121	
Easting (SFT)	1,136,970.3967	
Elevation (SFT)*	345.180	

Convergence Angle	0	19	31.8831021
Scale Factor	0.999943349		
Elevation Adjust. Factor	0.9999834892		
Combined Adjust. Factor	0.9999268392		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	26	21.0160212
Longitude	92	34	53.8048992
Ellipsoid Height (M):	78.075		
Geoid Height (M):	-27.136		

Location Description

FROM THE JCT. OF HWY. 190 AND HWY. 291 IN THE TOWN OF TULL, GO WEST ON HWY. 291 FOR 0.56 KM (0.35 MILES) TO THE STATION ON THE LEFT IN FRONT OF A BRICK HOUSE. THE STATION IS 8.50 METERS EAST OF THE CENTERLINE OF HWY. 291 AND 1.75 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "270001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	185	17.55	57.6
MK # 2	POWER POLE	220	23.80	78.1
MK # 3	THIRTY SIX INCH PIN OAK TREE	310	25.30	83.0

AZ Mark Station	270001
Geodetic Azimuth	87 21 28.332063
Grid Azimuth	87 41 00.25848

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	MALEPORT
Ref Mon # 3	93620004

Comments

Cross Reference Job: RX0026

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270002	1/7/1997	AHTD	GRANT	167	070244, RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	563,417.3630	
Easting (M)	362,643.5150	
Elevation (M)*	55.387	
Northing (SFT)	1,848,478.4651	
Easting (SFT)	1,189,772.9321	
Elevation (SFT)*	181.716	

Convergence Angle	0	13	36.1372470	
Scale Factor			0.999920141	
Elevation Adjust. Factor			0.9999913080	
Combined Adjust. Factor			0.9999114497	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	8	21.8128992	
Longitude	92	24	18.1933668	
Ellipsoid Height (M):	28.667			
Geoid Height (M):	-26.720			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 19.51 KM (12.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.772 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 12..520 METERS SOUTH OF THE CENTER OF A PASTURE ENTRANCE AND 1.25 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	0.60 METER DIAMETER PINE	87	29.04	95.3
MK # 2	POWER POLE	10	29.07	95.4
MK # 3	WOODED LINE POST	172	11.57	37.9

AZ Mark Station	270002A
Geodetic Azimuth	182 38 56.77865
Grid Azimuth	182 52 32.91536

Area Reference Monuments (used for Processing)

Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

Comments

ELEVATION BY 3-WIRE LEVELS USING USC&GS BENCH MARK "TT 8 CHC" ELEVATION = 52.420 METERS NGVD29. VERTCON WAS USED TO CONVERT THE ELEVATION FROM NGVD29 DATUM TO NAVD88 DATUM AFTER THE LEVELS WERE RUN.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270002A	1/7/1997	AHTD	GRANT	167	070244, RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	563,028.3550	
Easting (M)	362,623.9730	
Elevation (M)*	55.465	
Northing (SFT)	1,847,202.1947	
Easting (SFT)	1,189,708.8181	
Elevation (SFT)*	181.971	

Convergence Angle	0	13	36.5305387	
Scale Factor	0.999920031			
Elevation Adjust. Factor	0.9999912958			
Combined Adjust. Factor	0.9999113275			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	8	9.1844592	
Longitude	92	24	18.8960616	
Ellipsoid Height (M):	28.745			
Geoid Height (M):	-26.720			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 19.88 KM (12.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.85 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 4.75 METERS SOUTH OF THE SOUTHEAST CORNER OF A BRIDGE AND 0.39 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "270003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUD.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF GUARD RAIL POST	351	4.46	14.6
MK # 2	PUNCH IN TOP OF GUARD RAIL POST	254	1.46	4.8
MK # 3	PUNCH IN TOP OF GUARD RAIL POST	201	5.44	17.8

AZ Mark Station	270002
Geodetic Azimuth	2 38 56.38432
Grid Azimuth	2 52 32.91536

Area Reference Monuments (used for Processing)

Ref Mon # 1	MALEPORT
Ref Mon # 2	WARRPORT
Ref Mon # 3	TULIP

Comments

ELEVATION BY 3-WIRE LEVELS USING USC&GS BENCH MARK "TT 8 CHC" ELEVATION = 52.420 METERS NGVD29. VERTCON WAS USED TO CONVERT THE ELEVATION FROM NGVD29 DATUM TO NAVD88 DATUM AFTER THE LEVELS WERE RUN.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270003A	1/7/1997	AHTD	GRANT	167	001914, RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	568,673.3799	
Easting (M)	363,028.3260	
Elevation (M)*	79.092	
Northing (SFT)	1,865,722.5806	
Easting (SFT)	1,191,035.4329	
Elevation (SFT)*	259.488	

Convergence Angle	0	13	28.1801823
Scale Factor			0.999921992
Elevation Adjust. Factor			0.9999875880
Combined Adjust. Factor			0.9999095810

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	11	12.4543860
Longitude	92	24	3.9764700
Ellipsoid Height (M):	53.056		
Geoid Height (M):	-25.994		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 14.00 KM (8.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 80.98 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE WAY, 21.10 METERS EAST OF A WEB WIRE FENCE, 17.476 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270003A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone junction box	089	38.67	126.9
MK # 2	30 inch CMP	158	75.72	248.4
MK # 3				

AZ Mark Station	Freeman
Geodetic Azimuth	154 56 10
Grid Azimuth	155 09 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270004	1/7/1997	AHTD	GRANT	167	001914, RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	571,501.0789	
Easting (M)	362,301.3800	
Elevation (M)*	82.040	
Northing (SFT)	1,874,999.7897	
Easting (SFT)	1,188,650.4442	
Elevation (SFT)*	269.159	

Convergence Angle	0	13	44.3176740	
Scale Factor	0.999923268			
Elevation Adjust. Factor	0.9999871255			
Combined Adjust. Factor	0.9999103944			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	12	44.1377424	
Longitude	92	24	32.8093452	
Ellipsoid Height (M):	55.984			
Geoid Height (M):	-25.997			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 10.88 KM (6.76 MI) TO THE STATION ON THE RIGHT. THE STATION IS 66.578 METERS NORTH OF THE CENTER OF A CONCRETE DRIVE WAY, 17.181 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.02 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270004 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South end of 18 in. CMP	076	36.43	119.5
MK # 2	North end of 18in. CMP	115	31.52	103.4
MK # 3	Fire hydrant	193	62.50	205.0

AZ Mark Station	270004A
Geodetic Azimuth	192 11 56
Grid Azimuth	192 25 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270004A	1/7/1997	AHTD	GRANT	167	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	571,115.8699	
Easting (M)	362,216.4910	
Elevation (M)*	79.968	
Northing (SFT)	1,873,735.9832	
Easting (SFT)	1,188,371.9376	
Elevation (SFT)*	262.361	

Convergence Angle	0	13	46.1401005
Scale Factor	0.999923083		
Elevation Adjust. Factor	0.9999874506		
Combined Adjust. Factor	0.9999105346		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	12	31.6242828
Longitude	92	24	36.0654768
Ellipsoid Height (M):	53.925		
Geoid Height (M):	-25.998		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 11.35 KM (7.05MI) TO THE STATION ON THE LEFT. THE STATION IS 46.00 METERS NORTH OF THE CENTER OF A GRAVEL ROAD, 18.43 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270004A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16 inch pine	028	14.55	47.7
MK # 2	15 inch pine	162	12.84	42.1
MK # 3				

AZ Mark Station	270004
Geodetic Azimuth	012 11 54
Grid Azimuth	012 25 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270010	1/15/2003	AHTD	GRANT	46	020328

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	572,260.1399	
Easting (M)	350,021.4430	
Elevation (M)*		
Northing (SFT)	1,877,490.1423	
Easting (SFT)	1,148,362.0176	
Elevation (SFT)*		

Convergence Angle	0	18	12.9141966
Scale Factor	0.999923616		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	13	6.9216060
Longitude	92	32	32.7110640
Ellipsoid Height (M):	27.528		
Geoid Height (M):	-26.105		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 46 AND 291, WEST OF SHERIDAN, GO WEST ON HIGHWAY 46 1.40 MILES TO THE STATION ON THE RIGHT. 5.80 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY AND 6.65 METERS SOUTH EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "270010 2003" ON TOIP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	226	23.40	76.8
MK # 2				
MK # 3				

AZ Mark Station	270010A
Geodetic Azimuth	209 06 18
Grid Azimuth	209 24 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, AHTD MON 1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	De Queen CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270010A	1/15/2003	AHTD	GRANT	46	020328

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	571,774.4760
Easting (M)	349,747.6890
Elevation (M)*	
Northing (SFT)	1,875,896.7600
Easting (SFT)	1,147,463.8763
Elevation (SFT)*	
Convergence Angle	0 18 18.8438664
Scale Factor	0.999923374
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	12	51.1116876
Longitude	92	32	43.3056120
Ellipsoid Height (M):	27.406		
Geoid Height (M):	-26.108		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 46 AND HIGHWAY 291, WEST OF SHERIDAN, GO WEST ON HIGHWAY 46 1.75 MILES TO THE STATION ON THE RIGHT. 7.30 METERS NORTH WEST OF THE CENTER OF THE HIGHWAY, 5.30 METERS SOUTHWEST OF A GRAVEL TURN IN, AND 6.55 METERS SOUTH EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "270010A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	288	6.50	21.3
MK # 2				
MK # 3				

AZ Mark Station	270010
Geodetic Azimuth	29 06 12
Grid Azimuth	29 24 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, AHTD MON 1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	De Queen CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270011	5/5/2003	AHTD	GRANT	291	020328

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	577,151.0189	
Easting (M)	349,471.0760	
Elevation (M)*	72.117	
Northing (SFT)	1,893,536.3012	
Easting (SFT)	1,146,556.3552	
Elevation (SFT)*	236.605	

Convergence Angle	0	18	25.5224353
Scale Factor	0.999926375		
Elevation Adjust. Factor	0.9999886826		
Combined Adjust. Factor	0.9999150584		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	15	45.5639364
Longitude	92	32	55.2382188
Ellipsoid Height (M):	39.302		
Geoid Height (M):	-26.105		

Location Description

TO REACH THE STATION FROM STATE HIGHWAY 46 AND HIGHWAY 291, SOUTH WEST OF SHERIDAN AND NORTH EAST OF LEOLA, GO NORTH ON HIGHWAY 291 FOR 2.35 MILES TO THE STATION ON THE RIGHT, 4.O METERS SOUTH OF A GRAVEL FIELD ROAD TURN IN, 9.85 METERS EAST OF THE CENTERLINE OF STATE HIGHWAY 291 AND 2.3 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 270011 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	X-TIE GATE POST	57	3.00	9.8
MK # 2	POWER POLE	170	9.50	31.2
MK # 3	MAIL BOX #3743	203	9.40	30.8

AZ Mark Station	270011A
Geodetic Azimuth	183 55 01
Grid Azimuth	184 13 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, AHTD MON 1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	De Queen CORS

Comments

DIGITAL LEVELS WERE RAN BY CREW S5102 FROM USGS BM WLE 1936 DURING JOB 020543 IN SEPT. 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270011A	5/5/2003	AHTD	GRANT	291	020328

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	576,450.2549	
Easting (M)	349,419.3200	
Elevation (M)*	74.805	
Northing (SFT)	1,891,237.2113	
Easting (SFT)	1,146,386.5524	
Elevation (SFT)*	245.423	

Convergence Angle	0	18	26.5725297	
Scale Factor	0.999925943			
Elevation Adjust. Factor	0.9999882608			
Combined Adjust. Factor	0.9999142046			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	15	22.8111552	
Longitude	92	32	57.1144236	
Ellipsoid Height (M):	41.995			
Geoid Height (M):	-26.106			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 46 AND HIGHWAY 291, SOUTH WEST OF SHERIDAN, AND NORTH EAST OF LEOLA, GO NORTH ON HIGHWAY 291 FOR 1.95 MILES TO THE STATION ON THE RIGHT. 6.5 METERS EAST OF THE CENTERLINE OF HIGHWAY 291 AND 6.3 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270011A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	X-TIE FENCE CORNER POST	133	8.80	28.9
MK # 2	POWER POLE WITH TWO GUYS	168	29.00	95.1
MK # 3	METAL GATE	280	18.70	61.4

AZ Mark Station	270011
Geodetic Azimuth	3 55 00
Grid Azimuth	4 13 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, AHTD MON 1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	De Queen CORS

Comments

DIGITAL LEVELS WERE RAN BY CREW S5102 FROM USGS BM WLE 1936 DURING JOB 020543 IN SEPT. 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270013	3/30/2005	AHTD	GRANT	270	020275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	581,990.6039	
Easting (M)	364,142.3250	
Elevation (M)*	71.846	
Northing (SFT)	1,909,414.1730	
Easting (SFT)	1,194,690.2779	
Elevation (SFT)*	235.713	

Convergence Angle	0	13	4.9368206
Scale Factor			0.999929738
Elevation Adjust. Factor			0.9999887252
Combined Adjust. Factor			0.9999184640

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	18	24.8275404
Longitude	92	23	22.4373264
Ellipsoid Height:			45.984
Grid Northing (Meters)			581,990.9039
Grid Easting (Meters)			364,142.5870

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	18	24.8177736	
Longitude	92	23	22.4475288	
Ellipsoid Height (M):			45.976	
Geoid Height (M):			-25.956	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND STATE HIGHWAY 270, IN SHERIDAN, GO EAST ON HIGHWAY 270 0.55 MILES TO THE STATION MARK ON THE RIGHT, NORTH 20.95 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270013 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CHAINLINK FENCE CORNER	260	6.80	22.3
MK # 2	NORTHEAST CORNER OF WOOD BLDGING	214	27.05	88.7
MK # 3				

AZ Mark Station	270013A
Geodetic Azimuth	65 29 56
Grid Azimuth	65 43 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, DQUA
Ref Mon # 2	CSAL
Ref Mon # 3	270006,270006A

Comments

3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270013A	3/30/2005	AHTD	GRANT	270	020275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	582,207.4399	
Easting (M)	364,622.9460	
Elevation (M)*	74.109	
Northing (SFT)	1,910,125.5757	
Easting (SFT)	1,196,267.1153	
Elevation (SFT)*	243.139	

Convergence Angle	0	12	54.4337836
Scale Factor			0.999929902
Elevation Adjust. Factor			0.9999883700
Combined Adjust. Factor			0.9999182728

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	18	31.9239900
Longitude	92	23	3.6715200
Ellipsoid Height:			48.248
Grid Northing (Meters)			582,207.7385
Grid Easting (Meters)			364,623.2084

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	18	31.9142664
Longitude	92	23	3.6817404
Ellipsoid Height (M):	48.238		
Geoid Height (M):	-25.953		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND STATE HIGHWAY 270, IN SHERIDAN, GO WEST ON HIGHWAY 270 0.9 MILES TO THE STATION MARK ON THE LEFT, ACROSS THE ROAD FROM THE AHTD GRANT COUNTY MAINTENANCE YARD, EAST 16.9 METERS OF AN ASPH. TURN IN, WEST 18.2 METERS OF AN ASPH. TURN IN, SOUTH 14.9 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270013A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	222	19.80	65.0
MK # 2				
MK # 3				

AZ Mark Station	270013
Geodetic Azimuth	245 30 07
Grid Azimuth	245 43 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, DQUA
Ref Mon # 2	CSAL
Ref Mon # 3	270006,270006A

Comments

3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270014	3/30/2005	AHTD	GRANT	167	020275,020610

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	575,510.9740	
Easting (M)	363,044.3700	
Elevation (M)*	75.636	
Northing (SFT)	1,888,155.5872	
Easting (SFT)	1,191,088.0706	
Elevation (SFT)*	248.149	

Convergence Angle	0	13	28.4152732
Scale Factor			0.999925420
Elevation Adjust. Factor			0.9999881304
Combined Adjust. Factor			0.9999135513

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	14	54.3885216
Longitude	92	24	4.3863192
Ellipsoid Height:			49.753
Grid Northing (Meters)			575,511.2732
Grid Easting (Meters)			363,044.6318

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	14	54.3787764
Longitude	92	24	4.3965072
Ellipsoid Height (M):	49.730		
Geoid Height (M):	-25.984		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND STATE HIGHWAY 167, IN SHERIDAN, GO SOUTH ON STATE HIGHWAY 167 4.1 MILES TO THE STATION MARK ON THE LEFT, EAST 15.60 METERS OF THE CENTERLINE OF THE HIGHWAY, SOUTH 25.25 METERS OF AN ASPH. TURN IN, AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270014 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	50	13.40	44.0
MK # 2	TELEPHONE RISER	38	17.30	56.8
MK # 3				

AZ Mark Station	270005
Geodetic Azimuth	18 09 57
Grid Azimuth	18 23 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, DQUA
Ref Mon # 2	CSAL
Ref Mon # 3	270006,270006A

Comments

3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270015	4/4/2005	AHTD	GRANT	167	020275,020344

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	588,198.9079	
Easting (M)	364,505.3280	
Elevation (M)*	96.791	
Northing (SFT)	1,929,782.5837	
Easting (SFT)	1,195,881.2303	
Elevation (SFT)*	317.555	

Convergence Angle	0	12	57.5029071
Scale Factor			0.999934848
Elevation Adjust. Factor			0.9999848106
Combined Adjust. Factor			0.9999196596

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	21	46.3645188
Longitude	92	23	9.1549608
Ellipsoid Height:			70.841
Grid Northing (Meters)			588,199.2038
Grid Easting (Meters)			364,505.5945

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	21	46.3548816
Longitude	92	23	9.1653468
Ellipsoid Height (M):			70.832
Geoid Height (M):			-25.959

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND STATE HIGHWAY 35W, IN SHERIDAN, GO NORTH ON STATE HIGHWAY 167 3.75 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 35.30 METERS OF THE CENTERLINE OF THE HIGHWAY, NORTH OF THE CENTERLINE OF A GRAVEL TAR ROAD 7.0 METERS AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "270015 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDERGROUND CABLE MARKER	94	8.80	28.9
MK # 2	NORTH END OF PIPE GATE	289	36.90	121.1
MK # 3				

AZ Mark Station	270015A
Geodetic Azimuth	192 39 51
Grid Azimuth	192 52 48

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, DQUA
Ref Mon # 2	CSAL
Ref Mon # 3	270006,270006A

Comments

3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270016	10/6/2005	AHTD	GRANT	167	020275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	575,526.1990	
Easting (M)	360,306.3790	
Elevation (M)*	85.592	
Northing (SFT)	1,888,205.5379	
Easting (SFT)	1,182,105.1784	
Elevation (SFT)*	280.812	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	14	54.5117280	
Longitude	92	25	51.4111116	
Ellipsoid Height (M):	59.708			
Geoid Height (M):	-26.004			

Convergence Angle	0	14	28.3103506
Scale Factor	0.999925423		
Elevation Adjust. Factor	0.9999865680		
Combined Adjust. Factor	0.9999119920		

Location Description

To reach the station from the junction of highways 46,270 and 167 in Sheridan go south on Hwy-167 for 0.45 miles to Grant county road 9 on the right. Turn right on county road 9 and go 4.30 miles to the intersection of county roads 9 and 10. Turn right on county road 10 and go 0.10 miles to the station on the right in a clear cut. 6.40 meters North of the center of county road 10 and 0.50 meters south of a witness post. The station mark is a standard 64mm cap stamped "270016 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	270016A
Geodetic Azimuth	032 57 40
Grid Azimuth	033 12 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	270005, 270014
Ref Mon # 2	270012, 270012A
Ref Mon # 3	

Comments

3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270016A	10/6/2005	AHTD	GRANT	167	020275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	575,897.3359	
Easting (M)	360,549.2660	
Elevation (M)*	87.609	
Northing (SFT)	1,889,423.1762	
Easting (SFT)	1,182,902.0502	
Elevation (SFT)*	287.432	

Convergence Angle	0	14	23.0311526
Scale Factor			0.999925643
Elevation Adjust. Factor			0.9999862514
Combined Adjust. Factor			0.9999118955

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	15	6.5904084
Longitude	92	25	41.9787624
Ellipsoid Height (M):	61.729		
Geoid Height (M):	-26.001		

Location Description

To reach the station from the junction of highways 46,270 and 167 in Sheridan go south on Hwy-167 for 0.45 miles to Grant county road 9 on the right. Turn right on county road 9 and go 4.10 miles to the station on the right. 5.80 meters West of the center of county road 9 and 0.50 meters East of a witness post. The station mark is a standard 64mm cap stamped "270016A 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	270016
Geodetic Azimuth	212 57 46
Grid Azimuth	213 12 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	270005, 270014
Ref Mon # 2	270012, 270012A
Ref Mon # 3	

Comments

3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270017	10/6/2005	AHTD	GRANT	46	020275, 020610

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	579,263.0479	
Easting (M)	359,995.1040	
Elevation (M)*	95.873	
Northing (SFT)	1,900,465.5163	
Easting (SFT)	1,181,083.9370	
Elevation (SFT)*	314.542	

Convergence Angle	0	14	35.4664597
Scale Factor	0.999927784		
Elevation Adjust. Factor	0.9999849547		
Combined Adjust. Factor	0.9999127398		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	16	55.7514984	
Longitude	92	26	4.1969400	
Ellipsoid Height (M):	69.975			
Geoid Height (M):	-25.996			

Location Description

T reach the station from the junction of highways 46,270 and 167 in Sheridan go west on Hwy-46 for 2.85 miles to the station on the right. 10.50 meters Northwest of the center of Hwy-270 and 0.50 meters Southeast of a witness post. The station mark is a standard 64mm cap stamped "270017 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	gas meter	246	6.90	22.6
MK # 2	Power pole	030	17.10	56.1
MK # 3	Power pole w/guy	0	17.70	58.1

AZ Mark Station	270017A
Geodetic Azimuth	219 12 58
Grid Azimuth	219 27 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	270005, 270014
Ref Mon # 2	270012, 270012A
Ref Mon # 3	

Comments

3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270017A	10/6/2005	AHTD	GRANT	46	020275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	578,846.6419	
Easting (M)	359,652.3410	
Elevation (M)*	100.206	
Northing (SFT)	1,899,099.3576	
Easting (SFT)	1,179,959.3888	
Elevation (SFT)*	328.758	

Convergence Angle	0	14	42.9283822
Scale Factor	0.999927503		
Elevation Adjust. Factor	0.9999842747		
Combined Adjust. Factor	0.9999117789		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	16	42.1893336
Longitude	92	26	17.5291656
Ellipsoid Height (M):	74.309		
Geoid Height (M):	-26.000		

Location Description

To reach the station from the junction of highways 46,270 and 167 in Sheridan go west on Hwy-46 for 3.15 miles to the station on the left. 9.90 meters Southeast of the center of Hwy-46, 6.60 meters Northeast of the center of a gravel drive and 0.50 meters Northwest of a witness post. The station mark is a standard 64mm cap stamped "270017A 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser	057	5.75	18.9
MK # 2	Power pole w/guy	332	25.40	83.3
MK # 3				

AZ Mark Station	270017
Geodetic Azimuth	039 12 51
Grid Azimuth	039 27 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	270005, 270014
Ref Mon # 2	270012, 270012A
Ref Mon # 3	

Comments

3wire levels were ran in Job #020275 from NGS H-80 to NGS 86 by S5105, S5108, & S5111.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270018	8/30/2006	AHTD	GRANT	270	020445,020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	582,111.0805	0.0030
Easting (M)	379,038.8828	0.0030
Elevation (M)*	97.039	
Northing (SFT)	1,909,809.4366	
Easting (SFT)	1,243,563.4013	
Elevation (SFT)*	318.369	

Convergence Angle	0	7	38.8533787
Scale Factor			0.999929862
Elevation Adjust. Factor			0.9999847716
Combined Adjust. Factor			0.9999146347

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	18	30.1846932
Longitude	92	13	39.8335800
Ellipsoid Height:			71.219
Grid Northing (Meters)			582,111.0519
Grid Easting (Meters)			379,038.8900

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 12B			
Latitude	34	18	30.1856220	
Longitude	92	13	39.8338644	
Ellipsoid Height (M):			70.984	0.0200
Geoid Height (M):			-26.012	

Location Description

TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, EAST OF SHERIDAN, GO WEST ON HIGHWAY 270 FROM THE COUNTY LINE 1.0 MILES TO THE STATION MARK ON THE LEFT, SOUTH 56.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 8.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "270018 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	265	9.27	30.4
MK # 2	COMBINATION POLE	91	37.49	123.0
MK # 3				

AZ Mark Station	270018A
Geodetic Azimuth	93 24 39
Grid Azimuth	93 32 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAING ELEVATION ON NGS BM A-81.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270018A	8/30/2006	AHTD	GRANT	270	020445,020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	582,084.1440	0.0030
Easting (M)	379,474.2069	0.0030
Elevation (M)*	90.203	

Northing (SFT)	1,909,721.0624	
Easting (SFT)	1,244,991.6271	
Elevation (SFT)*	295.942	

Convergence Angle	0	7	29.3225788
Scale Factor			0.999929843
Elevation Adjust. Factor			0.9999858444
Combined Adjust. Factor			0.9999156884

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	18	29.3421240
Longitude	92	13	22.8044244
Ellipsoid Height:			64.396
Grid Northing (Meters)			582,084.1329
Grid Easting (Meters)			379,474.2260

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 12B			
Latitude	34	18	29.3424840	
Longitude	92	13	22.8051732	
Ellipsoid Height (M):			64.158	0.0200
Geoid Height (M):			-26.013	

Location Description

TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, EAST OF SHERIDAN, GO WEST ON HIGHWAY 270 FROM THE COUNTY LINE 0.70 MILES TO THE STATION MARK ON THE LEFT, SOUTH 39.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 26.1 FEET OF THE CENTERLINE OF DAVIS DRIVE, NORTH 4.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "270018A 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER VALVE	220	7.62	25.0
MK # 2	COMBINATION POLE WITH LIGHT	110	15.09	49.5
MK # 3				

AZ Mark Station	270018
Geodetic Azimuth	273 24 49
Grid Azimuth	273 32 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, ARLR
Ref Mon # 2	CSAL
Ref Mon # 3	K 124

Comments

3-Wire levels ran by S5102 in Jan 08 in Job 020445. Position updated in July 2019 by S5112 during job 020717 CONSTRAING ELEVATION ON NGS BM A-81.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270019	7/22/2008	AHTD	GRANT	167	020318,020344

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	587,588.2049
Easting (M)	364,353.9950
Elevation (M)*	
Northing (SFT)	1,927,778.9689
Easting (SFT)	1,195,384.7319
Elevation (SFT)*	
Convergence Angle	0 13 0.7671561
Scale Factor	0.999934303
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	21	26.5158972
Longitude	92	23	14.9975844
Ellipsoid Height (M):	67.769		
Geoid Height (M):	-25.958		

Location Description

To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 3.20 miles to the station on the right. 123 ft. north of a paved drive, 56.80 feet east of the center of hwy-167 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270019 2008" set on top of a 4 foot by 5/8 inch rebar and is 0.20 feet below the surface. This is a replacement for GPS station 270015A which was destroyed.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Gate post	204	34.90	114.5
MK # 2	Northwest corner of a powerline tower	157	33.62	110.3
MK # 3				

AZ Mark Station	270015
Geodetic Azimuth	13 42 03
Grid Azimuth	13 55 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270020	7/22/2008	AHTD	GRANT	167	020318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	592,094.9509
Easting (M)	365,615.3600
Elevation (M)*	
Northing (SFT)	1,942,564.8514
Easting (SFT)	1,199,523.0603
Elevation (SFT)*	
Convergence Angle	0 12 33.4998809
Scale Factor	0.999938545
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	23	52.9344348
Longitude	92	22	26.2791120
Ellipsoid Height (M):	65.691		
Geoid Height (M):	-25.972		

Location Description

To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 6.0 miles to the station on the right. 50.0 feet east of the east edge of the asphalt and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270020 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	270020A
Geodetic Azimuth	194 06 49
Grid Azimuth	194 19 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270020A	7/22/2008	AHTD	GRANT	167	020318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	591,424.0998
Easting (M)	365,444.0780
Elevation (M)*	
Northing (SFT)	1,940,363.9008
Easting (SFT)	1,198,961.1126
Elevation (SFT)*	
Convergence Angle	0 12 37.1993293
Scale Factor	0.999937882
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	23	31.1417268
Longitude	92	22	32.8889208
Ellipsoid Height (M):	61.249		
Geoid Height (M):	-25.968		

Location Description

To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 5.50 miles to the station on the left. 40.0 feet west of the west edge of the asphalt, 14.0 north of the center of a paved drive and 7.40 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "270020A 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	295	3.84	12.6
MK # 2	North gate post	240	3.50	11.5
MK # 3	Gas meter	273	10.58	34.7

AZ Mark Station	270020
Geodetic Azimuth	14 06 45
Grid Azimuth	14 19 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270021	7/22/2008	AHTD	GRANT	167	020318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	596,011.5049	
Easting (M)	367,170.9590	
Elevation (M)*		
Northing (SFT)	1,955,414.4123	
Easting (SFT)	1,204,626.7213	
Elevation (SFT)*		

Convergence Angle	0	11	59.7104705
Scale Factor			0.999942643
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	26	0.2250996
Longitude	92	21	25.9075332
Ellipsoid Height (M):	54.863		
Geoid Height (M):	-25.999		

Location Description

To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 8.60 miles to the station on the right. 43.4 feet east of the east edge of the asphalt, 11.0 feet north of the center of a paved drive and 3.40 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270021 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North gate post	140	1.04	3.4
MK # 2				
MK # 3				

AZ Mark Station	270021A
Geodetic Azimuth	13 56 45
Grid Azimuth	14 08 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270021A	7/22/2008	AHTD	GRANT	167	020318

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	596,601.4729	
Easting (M)	367,319.6480	
Elevation (M)*		
Northing (SFT)	1,957,349.9990	
Easting (SFT)	1,205,114.5451	
Elevation (SFT)*		

Convergence Angle	0	11	56.4957191
Scale Factor	0.999943293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	26	19.3889976
Longitude	92	21	20.1637332
Ellipsoid Height (M):	55.701		
Geoid Height (M):	-26.006		

Location Description

To reach the station from the junction of highways 167 and 35N in Sheridan go north on hwy-167 for 8.90 miles to the station on the left. 54.5 feet west of the of the west edge of the asphalt and 4.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "270021A 2008" set on top of a 4.0 foot by 5/8 inch rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Wooden fence post	5	9.60	31.5
MK # 2				
MK # 3				

AZ Mark Station	270021
Geodetic Azimuth	193 56 48
Grid Azimuth	194 08 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270022	7/22/2008	AHTD	GRANT	n/a	020318,001847

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	600,526.6339
Easting (M)	368,496.1090
Elevation (M)*	
Northing (SFT)	1,970,227.7981
Easting (SFT)	1,208,974.3176
Elevation (SFT)*	
Convergence Angle	0 11 30.9910544
Scale Factor	0.999947837
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 28 26.9075604
Longitude	92 20 34.5945192
Ellipsoid Height (M):	78.394
Geoid Height (M):	-26.065

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

To reach the station from the junction of highways 167 and 35 north in Sheridan go north on hwy-167 for 11.3 miles to county road 658 on the right. Turn right and go 0.30 miles to the station on the right at the top of a hill. 23.0 feet south of the center of the gravel road and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "270022 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	None			
MK # 2				
MK # 3				

AZ Mark Station	270022A
Geodetic Azimuth	272 06 16
Grid Azimuth	272 17 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270022A	7/22/2008	AHTD	GRANT	n/a	020318,001847

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	600,541.4539
Easting (M)	368,126.5150
Elevation (M)*	
Northing (SFT)	1,970,276.4200
Easting (SFT)	1,207,761.7413
Elevation (SFT)*	
Convergence Angle	0 11 39.0985889
Scale Factor	0.999947854
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 28 27.3481104
Longitude	92 20 49.0802604
Ellipsoid Height (M):	74.974
Geoid Height (M):	-26.067

Location Description

To reach the station from the junction of highways 167 and 35 north in Sheridan go north on hwy-167 for 11.3 miles to county road 658 on the right. Turn right and go 0.10 miles to the station on the left. 20.0 feet north of the center of the gravel road and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "270022A 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	270022
Geodetic Azimuth	272 06 16
Grid Azimuth	272 17 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270023	6/10/2014	AHTD	GRANT	229	020562

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	583,897.4808	0.0020
Easting (M)	341,098.6110	0.0020
Elevation (M)*	70.692	

Northing (SFT)	1,915,670.3183	
Easting (SFT)	1,119,087.6929	
Elevation (SFT)*	231.929	

Convergence Angle	0	21	29.6220421
Scale Factor			0.999931114
Elevation Adjust. Factor			0.9999889062
Combined Adjust. Factor			0.9999200210

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	34	19	22.9450080
Longitude	92	38	24.1692000
Ellipsoid Height (M):	44.394		
Geoid Height (M):	-26.298		

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 229 AND HWY. 270 IN POYEN. GO SOUTH ON HWY. 229 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1.0 FT. EAST OF A WITNESS POST, 20 FT. NORTH OF THE CENTER OF W. 4TH ST., AND 75 FT. EAST OF CENTER GRAVEL DRIVEWAY TO GRAVEL PARKING LOT. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "270023 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	93	18.40	60.4
MK # 2	TELEPHONE POLE	122	24.10	79.1
MK # 3	COMBINATION POLE	203	14.00	45.9

AZ Mark Station	A 81
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM A 81 BY CREW S5102 IN JUNE 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270024	7/8/2019	ARDOT	GRANT	270	020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	583,131.5652	0.0020
Easting (M)	350,938.3081	0.0020
Elevation (M)*		
Northing (SFT)	1,913,157.4768	
Easting (SFT)	1,151,370.0992	
Elevation (SFT)*		

Convergence Angle	0	17	54.1028236
Scale Factor	0.999930560		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	18	59.9169384
Longitude	92	31	59.1007620
Ellipsoid Height (M):	67.627	0.0110	
Geoid Height (M):	-26.177		

Location Description

Starting at the Intersection of Hwy 270 and Hwy 190 south, East of Prattsville AR., Go East along Hwy 270

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRON PIPE FIELD FENCE	153	2.50	8.2
MK # 2	WOOD UTILITY MARKER POST	260	28.00	91.9
MK # 3				

AZ Mark Station	270024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

Static elevation constraing ngs bm A-81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270024A	7/8/2019	ARDOT	GRANT	270	020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	582,789.1479	0.0020
Easting (M)	350,708.3672	0.0020
Elevation (M)*		
Northing (SFT)	1,912,034.0627	
Easting (SFT)	1,150,615.7014	
Elevation (SFT)*		

Vertical Determined By:	EDM - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 12B			
Latitude	34	18	48.7647396	
Longitude	92	32	8.0249100	
Ellipsoid Height (M):	68.362			0.0110
Geoid Height (M):	-26.180			

Convergence Angle	0	17	59.0975861
Scale Factor	0.999930296		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

From the Intersection of HWY 270 and HWY 190 south, East of Prattsville, AR, Go East 0.2 miles along

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRON PIPE FIELD FENCE	290	1.80	5.9
MK # 2	NE END OF 24" CMP CUS	47	33.30	109.3
MK # 3				

AZ Mark Station	270024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

Static elevation constraing ngs bm A-81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270025	7/8/2019	ARDOT	GRANT	270	020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	583,129.0999	0.0020
Easting (M)	355,260.2309	0.0020
Elevation (M)*		
Northing (SFT)	1,913,149.3886	
Easting (SFT)	1,165,549.6075	
Elevation (SFT)*		

Convergence Angle	0	16	19.4846253
Scale Factor	0.999930575		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 12B		
Latitude	34	19	0.5351988
Longitude	92	29	10.0463172
Ellipsoid Height (M):	62.349		0.0130
Geoid Height (M):	-26.127		

Location Description

From the intersection of Hwy 270 and Hwy 190 South, East of Prattseville, AR., go East along

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL FORESTRY RD 9420	90	28.65	94.0
MK # 2	EAST END OF CMP CUS	84	22.00	72.2
MK # 3	CL HWY 270	195	8.41	27.6

AZ Mark Station	270025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

Static elevation constraing ngs bm A-81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270025A	7/8/2019	ARDOT	GRANT	270	020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	583,111.5643	0.0020
Easting (M)	355,710.3706	0.0020
Elevation (M)*		
Northing (SFT)	1,913,091.8572	
Easting (SFT)	1,167,026.4409	
Elevation (SFT)*		

Convergence Angle	0	16	9.6280888
Scale Factor	0.999930563		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 12B		
Latitude	34	19	0.0351012
Longitude	92	28	52.4356320
Ellipsoid Height (M):	53.374	0.0130	
Geoid Height (M):	-261,229.000		

Location Description

From the intersection of Hwy 270 and Hwy 190 South, East of Prattseville, AR., go East along

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	CL HWY 270	196	7.90	25.9
MK # 2	ARDOT GPS WITNESS POST	15	4.90	16.1
MK # 3				

AZ Mark Station	270025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

Static elevation constraing ngs bm A-81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270026	7/8/2019	ARDOT	GRANT	270	020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	582,769.9673	0.0020
Easting (M)	375,574.9647	0.0020
Elevation (M)*		
Northing (SFT)	1,911,971.1344	
Easting (SFT)	1,232,198.8634	
Elevation (SFT)*		

Convergence Angle	0	8	54.7180231
Scale Factor	0.999930355		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 12B			
Latitude	34	18	51.2994492	
Longitude	92	15	55.3813128	
Ellipsoid Height (M):	73.303			0.0160
Geoid Height (M):	-26.016			

Location Description

From the Grant/Jefferson county line on Hwy 270,travel West on Hwy 270 for 3.0 miles. The station is on

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TB 96-5	280	6.75	22.1
MK # 2	5 BARB FE	198	1.65	5.4
MK # 3	S END OF SIGN (CLARK'S CHRISTMAS TREE	127	5.50	18.0

AZ Mark Station	270026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

Static elevation constraing ngs bm A-81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270026A	7/8/2019	ARDOT	GRANT	270	020717

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	582,632.7690	0.0020
Easting (M)	376,079.8282	0.0020
Elevation (M)*		
Northing (SFT)	1,911,521.0096	
Easting (SFT)	1,233,855.2364	
Elevation (SFT)*		

Convergence Angle	0	8	43.6578660
Scale Factor	0.999930252		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality				
Elevation Datum:	NAVD 88				
Geoid Datum:	GEOID 12B				
Latitude	34	18	46.8886320		
Longitude	92	15	35.6201172		
Ellipsoid Height (M):	71.491			0.0150	
Geoid Height (M):	-26.015				

Location Description

From the Grant/Jefferson county line on Hwy 270 East of White Hall, travel West along Hwy 270 for

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE CNR OF TAN, 1 S-F HOME	49	43.80	143.7
MK # 2	CP	104	30.00	98.4
MK # 3				

AZ Mark Station	270026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

Static elevation constraing ngs bm A-81

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270027	7/6/2020	ARDOT	GRANT	270	020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	583,461.8997	0.0040
Easting (M)	370,245.5639	0.0040
Elevation (M)*		

Northing (SFT)	1,914,241.2493	
Easting (SFT)	1,214,713.9876	
Elevation (SFT)*		

Convergence Angle	0	10	51.4375233
Scale Factor			0.999930880
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	19	13.2591648
Longitude	92	19	23.9241792
Ellipsoid Height (M):	59.392		0.0240
Geoid Height (M):	-26.031		0.0240

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-270 & SR-46 JUST EAST OF SHERIDAN, GO EAST ON US-270 3.6 MILES TO STATION ON RIGHT. 22.2' SOUTH OF C/L US-270. 38.5' EAST OF C/L CR-270041. THE MARK IS A STANDARD 2½" CAP STAMPED "270027 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP	217	20.88	68.5
MK # 2	WATER MARKER	178	11.00	36.1
MK # 3	GAS MARKER	191	11.60	38.1

AZ Mark Station	270027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270027A	7/6/2020	ARDOT	GRANT	270	020717

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	583,491.6160	0.0040
Easting (M)	370,760.8952	0.0040
Elevation (M)*		
Northing (SFT)	1,914,338.7435	
Easting (SFT)	1,216,404.7037	
Elevation (SFT)*		

Convergence Angle	0	10	40.1570564
Scale Factor	0.999930904		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	19	14.2759884
Longitude	92	19	3.7693560
Ellipsoid Height (M):	52.113	0.0240	
Geoid Height (M):	-26.029	0.0240	

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-270 & SR-46 JUST EAST OF SHERIDAN, GO EAST ON US-270 3.9 MILES TO STATION ON LEFT. 29.7' NORTH OF C/L US-270. THE MARK IS A STANDARD 2½" CAP STAMPED "270027A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	CP	201	28.66	94.0
MK # 2				
MK # 3				

AZ Mark Station	270027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270028	3/20/2024	ARDOT	GRANT	35	020813

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	573,037.4908	0.0010
Easting (M)	364,328.4206	0.0010
Elevation (M)*	68.340	

Northing (SFT)	1,880,040.5011	
Easting (SFT)	1,195,300.8266	
Elevation (SFT)*	224.212	

Convergence Angle	0	13	0.1219170
Scale Factor			0.999924050
Elevation Adjust. Factor			0.9999892753
Combined Adjust. Factor			0.9999133262

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	13	34.2597072
Longitude	92	23	13.8447348
Ellipsoid Height (M):	42.275		0.0070
Geoid Height (M):	-26.069		

Location Description

TO REACH FROM THE INTERSECTION OF IGHWAY 35 AND HIGHWAY 167, NEAR SHERIDAN, GRANT COUNTY, TRAVEL EAST ON HIGHWAY 35 FOR 1.2 MILES TO THE STATION ON THE LEFT (NORTH) SIDE OF THE HIGHWAY.THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 270028, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8 IN REBAR 4FT IN LENGTH. THE STATION IS 48FT NORTHWEST OF THE CENTERLINE OF HIGHWAY 35 AND 40FT SOUTHWEST OF THE CENTERLINE OF COUNTY ROAD GRANT 3552.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF WOODLAND ACRES SIGN	222	27.00	88.6
MK # 2				
MK # 3				

AZ Mark Station	270028A
Geodetic Azimuth	61 38 06.4
Grid Azimuth	61 51 02.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

ELEV WAS EST. BY RUNNING DIGITAL LEVELS FROM STATIC DIRIVED GPS PN 270028A BY CREW S5102 DURING JOB 02X324 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
270028A	3/20/2024	ARDOT	GRANT	35	020813

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	573,226.0940	0.0010
Easting (M)	364,680.9135	0.0010
Elevation (M)*	64.015	

Northing (SFT)	1,880,659.2767	
Easting (SFT)	1,196,457.2970	
Elevation (SFT)*	210.024	

Convergence Angle	0	12	52.4285706
Scale Factor	0.999924150		
Elevation Adjust. Factor	0.9999899540		
Combined Adjust. Factor	0.9999141048		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	13	40.4240988
Longitude	92	23	0.0990240
Ellipsoid Height (M):	37.949		0.0070
Geoid Height (M):	-26.067		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 35 AND HIGHWAY 167, NEAR SHERIDAN, GRANT COUNTY, TRAVEL EAST ALONG HIGHWAY 35 FOR 1.4 MILESTO THE STATION ON THE LEFT (SOUTH) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 270028A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 32FT SOUTHEAST OF THE CENTERLINE OF HIGHWAY 35 AND 9FT NW OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	61	24.00	78.7
MK # 2				
MK # 3				

AZ Mark Station	270028
Geodetic Azimuth	241 38 06.4
Grid Azimuth	241 51 02.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

ELEV WAS EST. BY STATIC OBS HOLDING ELEV OF AN OFFSET FROM NGS BM P 80 BY CREW S5102 DURING JOB 02X324 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280001	5/1/1990	AHTD	GREENE	49	R00094

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	182,554.7480	
Easting (M)	530,264.8630	
Elevation (M)*		
Northing (SFT)	598,931.7024	
Easting (SFT)	1,739,710.6380	
Elevation (SFT)*		

Convergence Angle	0	50	25.6320155
Scale Factor	0.999958563		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	58	12.7257996	
Longitude	90	33	20.4183720	
Ellipsoid Height (M):				
Geoid Height (M):	-28.817			

Location Description

THE STATION IS 0.65 MILES FROM AHTD GPS STATION 90160003, 47 FEET WEST OF THE CENTERLINE OF HWY. 49, 44 FEET EAST OF A SMALL LOG CABIN, 200 FEET SOUTH OF THE SOUTH ENTRANCE TO A LIQUOR STORE AND 1.70 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 6" PINE	14	16.69	54.8
MK # 2	NBC IN 4" PINE	295	11.33	37.2
MK # 3	NBC IN POWER POLE	225	14.97	49.1

AZ Mark Station	90160003
Geodetic Azimuth	219 17 06
Grid Azimuth	218 26 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	FIRST
Ref Mon # 2	BOWMAN
Ref Mon # 3	NETTLE

Comments

Old point number 90280001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280002	5/1/1990	AHTD	GREENE	49	R00094,100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	192,633.5489	
Easting (M)	534,728.2370	
Elevation (M)*		
Northing (SFT)	631,998.5683	
Easting (SFT)	1,754,354.2242	
Elevation (SFT)*		

Convergence Angle	0	52	12.8414276
Scale Factor	0.999970391		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	3	37.5392124	
Longitude	90	30	16.1778276	
Ellipsoid Height (M):				
Geoid Height (M):	-28.930			

Location Description

THE STATION IS 9 FEET EAST OF THE EDGE OF THE MC DONALD'S PARKING LOT, 3 FEET EAST OF A FENCE, 90 FEET WEST OF THE CENTERLINE OF HWY. 49, 228 FEET NORTH OF 1ST MEDICAL DRIVE AT THE ENTRANCE TO MC DONALD'S AND 2.5 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	DRILL POINT IN TOP OF R/W MARKER	5	11.58	38.0
MK # 2	DRILL POINT IN LIGHT POLE BASE	195	21.76	71.4
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	FIRST
Ref Mon # 2	BOWMAN
Ref Mon # 3	NETTLE

Comments

Old point number 90280002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280003	12/6/1999	AHTD	GREENE	139	100566

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	191,901.6019	
Easting (M)	548,142.3320	
Elevation (M)*	76.103	
Northing (SFT)	629,597.1722	
Easting (SFT)	1,798,363.6342	
Elevation (SFT)*	249.680	

Convergence Angle	0	57	24.4203944
Scale Factor	0.999969168		
Elevation Adjust. Factor	0.9999880571		
Combined Adjust. Factor	0.9999572255		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	6.8553720
Longitude	90	21	20.7259740
Ellipsoid Height (M):	47.850		
Geoid Height (M):	-28.183		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO NORTH ON STATE HIGHWAY 139 FOR 0.19 KM (0.12 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.95 METERS WEST OF THE CENTER OF STATE HIGHWAY 139, 3.65 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280003 1999" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 606.882 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	280003A
Geodetic Azimuth	19 55 27.363342
Grid Azimuth	18 58 02.970403

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	KENNPORT
Ref Mon # 3	MANIPORT

Comments

ELEV BY 3-WIRE FROM NGS PARAGOULD

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280003A	12/6/1999	AHTD	GREENE	139	100566

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,475.5150	
Easting (M)	548,339.5820	
Elevation (M)*	76.147	
Northing (SFT)	631,480.0855	
Easting (SFT)	1,799,010.7786	
Elevation (SFT)*	249.824	

Convergence Angle	0	57	29.2288703
Scale Factor	0.999969903		
Elevation Adjust. Factor	0.9999880503		
Combined Adjust. Factor	0.9999579536		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	25.3665036
Longitude	90	21	12.4625556
Ellipsoid Height (M):	47.865		
Geoid Height (M):	-28.187		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO NORTH ON STATE HIGHWAY 139 FOR 0.76 KM (0.47 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 139 AND 0.57 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 606.882 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LEVEE MILE MARKED 38	389	0.70	2.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	280003
Geodetic Azimuth	199 55 32.22681
Grid Azimuth	198 58 02.97040

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	KENNPORT
Ref Mon # 3	MANIPORT

Comments

ELEV BY 3-WIRE FROM NGS PARAGOULD

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280004	3/13/2000	AHTD	GREENE	412	100496

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,312.0539	
Easting (M)	519,174.2540	
Elevation (M)*	85.277	
Northing (SFT)	634,224.6302	
Easting (SFT)	1,703,324.1983	
Elevation (SFT)*	279.780	

Convergence Angle	0	46	11.4223390
Scale Factor	0.999971578		
Elevation Adjust. Factor	0.9999866174		
Combined Adjust. Factor	0.9999581958		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	6.7735308
Longitude	90	40	37.2804744
Ellipsoid Height (M):	57.142		
Geoid Height (M):	-28.024		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141, LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 0.37 KM (0.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.20 METERS WEST OF THE CENTER OF A GRAVEL ENTRANCE TO A METAL BUILDING, 14.55 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 9.85 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 4.85 METERS NORTH-NORTHWEST OF A POWER POLE AND 1.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 371.211 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER FENCE POST	187	2.10	6.9
MK # 2	GATE POST	101	11.62	38.1
MK # 3	EAST END OF CMP	273	5.85	19.2

AZ Mark Station	280004A
Geodetic Azimuth	80 44 55.303310
Grid Azimuth	79 58 43.931174

Area Reference Monuments (used for Processing)

Ref Mon # 1	P 315
Ref Mon # 2	POCAPORT
Ref Mon # 3	AHTD PAR 1

Comments

Elevation based on 3-wire from NGS Pt. K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280004A	3/13/2000	AHTD	GREENE	412	100496

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,376.6459	
Easting (M)	519,539.7860	
Elevation (M)*	86.830	
Northing (SFT)	634,436.5458	
Easting (SFT)	1,704,523.4479	
Elevation (SFT)*	284.875	

Convergence Angle	0	46	19.9420762
Scale Factor	0.999971657		
Elevation Adjust. Factor	0.9999863737		
Combined Adjust. Factor	0.9999580311		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	8.7094380
Longitude	90	40	22.6392132
Ellipsoid Height (M):	58.688		
Geoid Height (M):	-28.027		

Location Description

THE STATION IS LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD AT THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141. THE STATION IS 44.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 141, 11.75 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 371.211 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	81	22.90	75.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	280004
Geodetic Azimuth	260 45 03.92346
Grid Azimuth	259 58 43.93117

Area Reference Monuments (used for Processing)

Ref Mon # 1	P 315
Ref Mon # 2	POCAPORT
Ref Mon # 3	AHTD PAR 1

Comments

Elevation based on 3-wire from NGS Pt. K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280005	3/13/2000	AHTD	GREENE	412	100496

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,941.5739	
Easting (M)	525,112.7580	
Elevation (M)*	132.015	
Northing (SFT)	636,289.9804	
Easting (SFT)	1,722,807.4402	
Elevation (SFT)*	433.119	

Convergence Angle	0	48	29.7121146
Scale Factor			0.999972309
Elevation Adjust. Factor			0.9999792830
Combined Adjust. Factor			0.9999515925

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	24.5430120
Longitude	90	36	39.6279864
Ellipsoid Height (M):	103.895		
Geoid Height (M):	-28.073		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141, LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD, GO EAST ON U.S. HIGHWAY 412 FOR 5.55 KM (3.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 28.30 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 13.75 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 683.060 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF CMP	275	22.80	74.8
MK # 2	TELEPHONE JUNCTION BOX	287	23.00	75.5
MK # 3	GUY POLE	322	20.50	67.3

AZ Mark Station	280005A
Geodetic Azimuth	274 40 15.35821
Grid Azimuth	273 51 45.55189

Area Reference Monuments (used for Processing)

Ref Mon # 1	P 315
Ref Mon # 2	POCAPORT
Ref Mon # 3	AHTD PAR 1

Comments

Elevation based on 3-wire from NGS Pt. K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280005A	3/13/2000	AHTD	GREENE	412	100496

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,987.5859	
Easting (M)	524,431.2860	
Elevation (M)*	134.346	
Northing (SFT)	636,440.9381	
Easting (SFT)	1,720,571.6442	
Elevation (SFT)*	440.767	

Convergence Angle	0	48	13.8804101
Scale Factor	0.999972383		
Elevation Adjust. Factor	0.9999789172		
Combined Adjust. Factor	0.9999513008		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	26.3467632
Longitude	90	37	6.8349432
Ellipsoid Height (M):	106.071		
Geoid Height (M):	-28.069		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 141, LOCATED ABOUT 16.09 KM (10.00 MI) WEST OF PARAGOULD, GO EAST ON U.S. HIGHWAY 412 FOR 4.91 KM (3.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.70 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 9.30 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 683.060 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	301	16.40	53.8
MK # 2	POWER POLE	266	32.15	105.5
MK # 3	NONE			

AZ Mark Station	280005
Geodetic Azimuth	94 39 59.338058
Grid Azimuth	93 51 45.551888

Area Reference Monuments (used for Processing)

Ref Mon # 1	P 315
Ref Mon # 2	POCAPORT
Ref Mon # 3	AHTD PAR 1

Comments

Elevation based on 3-wire from NGS Pt. K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280006	3/13/2000	AHTD	GREENE	412	100496,100445,10786_9

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,095.4239	
Easting (M)	529,924.1990	
Elevation (M)*	115.137	
Northing (SFT)	633,513.9032	
Easting (SFT)	1,738,592.9762	
Elevation (SFT)*	377.744	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	3	54.8482428	
Longitude	90	33	27.8518104	
Ellipsoid Height (M):	87.008			
Geoid Height (M):	-28.092			

Convergence Angle	0	50	21.3065042
Scale Factor	0.999971091		
Elevation Adjust. Factor	0.9999819316		
Combined Adjust. Factor	0.9999530232		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND U. S. HIGHWAY 49, LOCATED IN PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 5.15 KM (3.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.70 METERS EAST OF THE NORTHEAST CORNER OF A CHURCH, 14.00 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 412, 5.81 METERS SOUTHWEST OF THE BACK OF CURB AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 567.287 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER	318	29.95	98.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	280006A
Geodetic Azimuth	123 55 55.37362
Grid Azimuth	123 05 34.13100

Area Reference Monuments (used for Processing)

Ref Mon # 1	P 315
Ref Mon # 2	POCAPORT
Ref Mon # 3	AHTD PAR 1

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark R 324.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280006A	3/13/2000	AHTD	GREENE	412	100496,100445,10786_9

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,785.7009	
Easting (M)	530,399.4450	
Elevation (M)*	111.194	
Northing (SFT)	632,497.7537	
Easting (SFT)	1,740,152.1791	
Elevation (SFT)*	364.809	

Convergence Angle	0	50	32.2505918
Scale Factor	0.999970675		
Elevation Adjust. Factor	0.9999825504		
Combined Adjust. Factor	0.9999532259		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	44.5740984
Longitude	90	33	9.0442764
Ellipsoid Height (M):	83.033		
Geoid Height (M):	-28.091		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 412 AND U.S. HIGHWAY 49, LOCATED IN PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.50 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 412, 4.61 METERS NORTHEAST OF THE NORTHEAST EDGE OF CONCRETE SIDEWALK, 4.10 METERS SOUTHWEST OF THE SOUTHWEST EDGE OF A PAVED PARKING LOT AND 0.84 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 567.287 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	296	10.90	35.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	280006
Geodetic Azimuth	303 56 06.44535
Grid Azimuth	303 05 34.13100

Area Reference Monuments (used for Processing)

Ref Mon # 1	P 315
Ref Mon # 2	POCAPORT
Ref Mon # 3	AHTD PAR 1

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark R 324.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280007	12/17/2002	AHTD	GREENE	N/A	100433

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	182,384.3659	
Easting (M)	515,440.0270	
Elevation (M)*	114.114	
Northing (SFT)	598,372.7071	
Easting (SFT)	1,691,072.8219	
Elevation (SFT)*	374.389	

Convergence Angle	0	44	41.2887989
Scale Factor			0.999958599
Elevation Adjust. Factor			0.9999820921
Combined Adjust. Factor			0.9999406919

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	58	13.8521280	
Longitude	90	43	12.1759464	
Ellipsoid Height (M):	86.400			
Geoid Height (M):	-27.832			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE GREEN / CRAIGHEAD COUNTY LINE AND STATE HIGHWAY 141, GO NORTH ON STATE HIGHWAY 141 FOR 0.40 MILES AND TURN LEFT ON AN ASHPHALT ROAD THAT IS THE ENTRANCE TO LAKE FRIERSON STATE PARK. GO 0.07 MILES TO THE OFFICE AND TURN LEFT ON AN ASHPHALT ROAD FOR 0.10 MILES TO A GRAVEL ROAD ON THE LEFT. gO LEFT ON THE GRAVEL FOR 0.20 MILES TO A CHAINLINK GATE. GO WEST ON LAKE FRIERSON LEVEE 49.4 METERS TO THE STATION ON THE RIGHT. THE STATION IS 3.20 METERS NORTH OF THE CENTER OF THE LEVEE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "280007 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	280007A
Geodetic Azimuth	269 58 06
Grid Azimuth	269 13 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR1, AHTD PAR1
Ref Mon # 2	480016 and BUTLER
Ref Mon # 3	MEM2 CORS

Comments

ELEVATION BY 3 WIRE FROM 160019A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280007A	12/17/2002	AHTD	GREENE	N/A	100433

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	182,376.5429	
Easting (M)	514,862.8170	
Elevation (M)*	114.341	
Northing (SFT)	598,347.0412	
Easting (SFT)	1,689,179.0921	
Elevation (SFT)*	375.132	

Convergence Angle	0	44	27.8812753
Scale Factor	0.999958599		
Elevation Adjust. Factor	0.9999820566		
Combined Adjust. Factor	0.9999406563		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	58	13.8411588
Longitude	90	43	35.2169220
Ellipsoid Height (M):	86.630		
Geoid Height (M):	-27.829		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE GREEN / CRAIGHEAD COUNTY LINE AND STATE HIGHWAY 141, GO NORTH ON STATE HIGHWAY 141 FOR 0.40 MILES AND TURN LEFT ON AN ASHPHALT ROAD THAT IS THE ENTRANCE TO LAKE FRIERSON STATE PARK. GO 0.07 MILES TO THE OFFICE AND TURN LEFT ON AN ASHPHALT ROAD FOR 0.10 MILES TO A GRAVEL ROAD ON THE LEFT. GO LEFT ON THE GRAVEL FOR 0.20 MILES TO A CHAINLINK GATE. GO WEST ON LAKE FRIERSON LEVEE 49.4 METERS TO STATION 280007 ON THE RIGHT, CONTINUE ON WEST 0.30 MILES ON TOP OF THE LEVEE TO THE STATION ON THE RIGHT. THE STATION IS 3.05 METERS NORTH OF THE CENTER OF THE LEVEE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "280007A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	280007
Geodetic Azimuth	89 57 53
Grid Azimuth	89 13 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR1, AHTD PAR1
Ref Mon # 2	480016 and BUTLER
Ref Mon # 3	MEM2 CORS

Comments

ELEVATION BY 3 WIRE FROM 160019A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280008	12/19/2002	AHTD	GREENE	N/A	100568,101000

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	184,535.3209	
Easting (M)	536,447.3090	
Elevation (M)*	76.486	
Northing (SFT)	605,429.6320	
Easting (SFT)	1,759,994.2129	
Elevation (SFT)*	250.938	

Convergence Angle	0	52	49.9150921	
Scale Factor	0.999960603			
Elevation Adjust. Factor	0.9999879970			
Combined Adjust. Factor	0.9999486004			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	59	13.9674120	
Longitude	90	29	12.4663308	
Ellipsoid Height (M):	48.391			
Geoid Height (M):	-28.059			

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 49 AND HIGHWAY 69 SOUTH OF PARAGOULD, GO NORTH ON HIGHWAY 69 2.9 MILES TO COUNTY ROAD 914 (GRAVEL) AND TURN RIGHT (EAST) AND GO 0.1 MILES TO THE STATION ON THE LEFT. 5.60 METERS NORTH OF THE CENTER OF THE ROAD AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280008 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	109	9.10	29.9
MK # 2	GUY POLE	144	21.00	68.9
MK # 3				

AZ Mark Station	280008A
Geodetic Azimuth	270 42 34
Grid Azimuth	269 49 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	480016 and BUTLER
Ref Mon # 3	MEM2 CORS

Comments

ELEV BY 3-WIRE BY CONS. LAND. FROM NGS PT K 187

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280008A	12/20/2002	AHTD	GREENE	69	100568,101000

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	184,533.3510	
Easting (M)	535,787.7780	
Elevation (M)*	79.220	
Northing (SFT)	605,423.1691	
Easting (SFT)	1,757,830.4017	
Elevation (SFT)*	259.909	

Convergence Angle	0	52	34.5947017
Scale Factor	0.999960612		
Elevation Adjust. Factor	0.9999875679		
Combined Adjust. Factor	0.9999481804		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	59	14.2315584
Longitude	90	29	38.7945888
Ellipsoid Height (M):	51.146		
Geoid Height (M):	-28.052		

Location Description

TO REACH FROM U.S. STATE HIGHWAY 49 AND HIGHWAY 69 SOUTH OF PARAGOULD, GO NORTH ON HIGHWAY 69 2.5 MILES TO THE STATION ON THE LEFT. 8.15 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280008A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF A 24" CMP	80	8.45	27.7
MK # 2				
MK # 3				

AZ Mark Station	280008
Geodetic Azimuth	90 42 18
Grid Azimuth	89 49 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	480016 and BUTLER
Ref Mon # 3	MEM2 CORS

Comments

ELEV BY 3-WIRE BY CONS. LAND. FROM NGS PT K 187

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280009	12/19/2002	AHTD	GREENE	412	100564,100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,475.9030	
Easting (M)	533,796.7280	
Elevation (M)*	89.142	
Northing (SFT)	631,481.3584	
Easting (SFT)	1,751,298.0984	
Elevation (SFT)*	292.459	

Convergence Angle	0	51	51.1290176
Scale Factor	0.999970204		
Elevation Adjust. Factor	0.9999860110		
Combined Adjust. Factor	0.9999562154		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	32.8823964
Longitude	90	30	53.4908412
Ellipsoid Height (M):	61.164		
Geoid Height (M):	-28.107		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-412 AND HWY-49B IN PARAGOULD, GO WEST ON HWY-412 FOR 0.20MI. TO THE STATION ON THE RIGHT NEAR THE EDGE OF A BURGER KING PARKING LOT AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280009 2002" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	116	14.00	45.9
MK # 2	LIGHT POLE	250	13.70	44.9
MK # 3	COMBINATION POLE	281	16.00	52.5

AZ Mark Station	AHTD PAR2
Geodetic Azimuth	260 43 51
Grid Azimuth	259 52 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR1
Ref Mon # 2	BUTLER
Ref Mon # 3	480016 (Brinkley shop)

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark PAR 1.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280010	12/20/2002	AHTD	GREENE	412	100566,100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	191,855.6250	
Easting (M)	539,414.4480	
Elevation (M)*	79.681	
Northing (SFT)	629,446.3297	
Easting (SFT)	1,769,728.9015	
Elevation (SFT)*	261.420	

Convergence Angle	0	54	1.5081989
Scale Factor			0.999969290
Elevation Adjust. Factor			0.9999874956
Combined Adjust. Factor			0.9999567860

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	9.9531360
Longitude	90	27	9.4327956
Ellipsoid Height (M):	51.556		
Geoid Height (M):	-28.135		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND HIGHWAY 135 SOUTH, EAST OF PARAGOULD, GO WEST ON 412 2.9 MILES TO THE STATION ON THE RIGHT. 15.10 METERS NORTH OF THE CENTER OF THE ROAD, 12.7 METERS WEST OF A CONC DRIVE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280010 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF A MANHOLE	163	7.00	23.0
MK # 2	30" CMP	31	14.90	48.9
MK # 3				

AZ Mark Station	280010A
Geodetic Azimuth	92 49 38
Grid Azimuth	91 55 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	280003, 280003A
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2 CORS

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark L 187.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280010A	12/20/2002	AHTD	GREENE	412	100566

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	191,829.8899
Easting (M)	540,179.4100
Elevation (M)*	78.984
Northing (SFT)	629,361.8971
Easting (SFT)	1,772,238.6143
Elevation (SFT)*	259.133
Convergence Angle	0 54 19.2818297
Scale Factor	0.999969242
Elevation Adjust. Factor	0.9999876050
Combined Adjust. Factor	0.9999568474

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 3 8.7271668
Longitude	90 26 38.8886172
Ellipsoid Height (M):	50.845
Geoid Height (M):	-28.139

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND HIGHWAY 135 SOUTH, EAST OF PARAGOULD, GO WEST ON HIGHWAY 412 0.20 MILES TO THE STATION ON THE LEFT. 22.5 METERS WEST OF A FENCE CORNER, 21.3 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280010A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	90	22.50	73.8
MK # 2	COMBINATION POLE	268	24.50	80.4
MK # 3				

AZ Mark Station	280010
Geodetic Azimuth	272 49 56
Grid Azimuth	271 55 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	280003, 280003A
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2 CORS

Comments

ELEV BY 3-WIRE FROM NGS PARAGOULD

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280011	12/20/2002	AHTD	GREENE	412	100566

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	191,874.9059	
Easting (M)	544,533.0690	
Elevation (M)*	74.213	
Northing (SFT)	629,509.5871	
Easting (SFT)	1,786,522.2439	
Elevation (SFT)*	243.480	

Convergence Angle	0	56	0.5072440
Scale Factor	0.999969210		
Elevation Adjust. Factor	0.9999883537		
Combined Adjust. Factor	0.9999575641		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	7.9209324
Longitude	90	23	44.9316384
Ellipsoid Height (M):	46.049		
Geoid Height (M):	-28.164		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 412 AND 139 NORTH, EAST OF PARAGOULD, GO WEST ON HIGHWAY 412 2.20 MILES TO THE STATION ON THE LEFT. 13.9 METERS WEST OF COUNTY ROAD 930, 23.7 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280011 2002" ON TOP OF A 1.22 METER IRON ROD AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE PEDESTAL	72	6.40	21.0
MK # 2				
MK # 3				

AZ Mark Station	280011A
Geodetic Azimuth	271 05 43
Grid Azimuth	270 09 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	280003, 280003A
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2 CORS

Comments

ELEV BY 3-WIRE FROM NGS PARAGOULD

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280011A	12/20/2002	AHTD	GREENE	412	100566

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	191,876.8419	
Easting (M)	543,847.5070	
Elevation (M)*	75.149	
Northing (SFT)	629,515.9388	
Easting (SFT)	1,784,273.0292	
Elevation (SFT)*	246.551	

Convergence Angle	0	55	44.5709192
Scale Factor	0.999969227		
Elevation Adjust. Factor	0.9999882068		
Combined Adjust. Factor	0.9999574342		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	8.3452536
Longitude	90	24	12.3183864
Ellipsoid Height (M):	46.989		
Geoid Height (M):	-28.160		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWWAY 412 AND 139 NORTH, EAST OF PARAGOULD, GO WEST ON 412 2.6 MILES TO THE STATION ON THE LEFT. 7.9 METERS EAST OF A FIELD ROAD, 11.6 METERS SOUTH OF THE CENTER OF THE ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "280011A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF A 24" CMP	220	6.00	19.7
MK # 2				
MK # 3				

AZ Mark Station	280011
Geodetic Azimuth	91 05 27
Grid Azimuth	90 09 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	280003, 280003A
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2 CORS

Comments

ELEV BY 3-WIRE FROM NGS PARAGOULD

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280012	1/2/2003	AHTD	GREENE	49	100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	187,811.1399	
Easting (M)	532,726.2940	
Elevation (M)*	90.169	
Northing (SFT)	616,177.0482	
Easting (SFT)	1,747,786.1829	
Elevation (SFT)*	295.828	

Convergence Angle	0	51	24.6203319
Scale Factor	0.999964420		
Elevation Adjust. Factor	0.9999858498		
Combined Adjust. Factor	0.9999502703		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	2.0715600
Longitude	90	31	39.0463068
Ellipsoid Height (M):	62.144		
Geoid Height (M):	-28.052		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-69 SOUTH OF PARAGOULD, GO NORTH ON HWY-49 FOR 2.1MI. TO THE STATION ON THE LEFT. 22.1 METERS WEST OF THE CENTER OF HWY-49 AND 0.50 METERS EAST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	280012A
Geodetic Azimuth	27 50 27
Grid Azimuth	26 59 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	280010, 280010A
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2 CORS

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark F 324.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280012A	1/2/2003	AHTD	GREENE	49	100445,101000

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	188,425.0329	
Easting (M)	533,038.8720	
Elevation (M)*	103.694	
Northing (SFT)	618,191.1288	
Easting (SFT)	1,748,811.6992	
Elevation (SFT)*	340.204	

Convergence Angle	0	51	32.0975629
Scale Factor	0.999965148		
Elevation Adjust. Factor	0.9999837272		
Combined Adjust. Factor	0.9999488758		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	21.8355168
Longitude	90	31	26.1966036
Ellipsoid Height (M):	75.657		
Geoid Height (M):	-28.060		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-69 JUST SOUTH OF PARAGOULD GO NORTH ON HWY-49 FOR 2.6MI. TO THE STATION ON THE RIGHT. 28.6 METERS EAST OF THE CENTER OF HWY-49, 10.1 METERS SOUTH OF AN ASPHALT DRIVEWAY AND 0.50 METERS WEST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	8	27.10	88.9
MK # 2	Fire hydrant	18	30.40	99.7
MK # 3				

AZ Mark Station	280012
Geodetic Azimuth	207 50 35
Grid Azimuth	206 59 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	280010, 280010A
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2 CORS

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark F 324.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280013	1/2/2003	AHTD	GREENE	49	100445,100632,100633

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	195,655.4088	
Easting (M)	536,967.5447	
Elevation (M)*	94.246	
Northing (SFT)	641,912.7870	
Easting (SFT)	1,761,701.0196	
Elevation (SFT)*	309.204	

Convergence Angle	0	53	5.9892047
Scale Factor			0.999974402
Elevation Adjust. Factor			0.9999852100
Combined Adjust. Factor			0.9999596124

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	5	14.4587220
Longitude	90	28	44.8436208
Ellipsoid Height:			66.103
Grid Northing (Meters)			195,655.4039
Grid Easting (Meters)			536,967.5240

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	5	14.4588696	
Longitude	90	28	44.8427928	
Ellipsoid Height (M):			65.982	
Geoid Height (M):			-28.264	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-135 NORTH OF PARAGOULD GO NORTH ON HWY-49 FOR 1.9MI. TO THE STATION ON THE RIGHT. 11.3 METERS WEST OF THE CENTER OF HWY-49 AND 0.50 METERS WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	90	22.00	72.2
MK # 2	GUY POLE	182	19.00	62.3
MK # 3				

AZ Mark Station	280013A
Geodetic Azimuth	49 45 28
Grid Azimuth	48 52 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	280010, 280010A
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2 CORS

Comments

Elevation determined by three wire levelsfrom NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280013A	1/2/2003	AHTD	GREENE	49	100445, 100632

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	196,124.7046
Easting (M)	537,504.9975
Elevation (M)*	85.875
Northing (SFT)	643,452.4683
Easting (SFT)	1,763,464.3126
Elevation (SFT)*	281.740
Convergence Angle	0 53 18.6581140
Scale Factor	0.999975040
Elevation Adjust. Factor	0.9999865237
Combined Adjust. Factor	0.9999615640

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	GEOID12A
Latitude	36 5 29.4133632
Longitude	90 28 23.0711340
Ellipsoid Height (M):	57.608
Geoid Height (M):	-28.268

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-49 AND HWY-135, GO NORTH ON HWY-49 FOR 2.4MI. TO THE STATION ON THE LEFT. 15.2 METERS EAST OF THE CENTER OF HWY-49, 18.1 METERS SOUTH OF THE CENTER OF AN ASPHALT DRIVE AND 0.50 METERS EAST OF A WITNESS POST SET NEXT TO A WIRE FENCE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDERGROUND CABLE MARKER	47	24.05	78.9
MK # 2				
MK # 3				

AZ Mark Station	280013
Geodetic Azimuth	229 45 41
Grid Azimuth	228 52 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	280010, 280010A
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2 CORS

Comments

Elevation determined by three wire levelsfrom NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280014	2/10/2003	AHTD	GREENE	141	100570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	209,540.0970
Easting (M)	527,587.7150
Elevation (M)*	95.044
Northing (SFT)	687,466.1349
Easting (SFT)	1,730,927.3616
Elevation (SFT)*	311.824
Convergence Angle	0 49 32.4911535
Scale Factor	0.999996187
Elevation Adjust. Factor	0.9999850847
Combined Adjust. Factor	0.9999812717

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 12 49.4277012
Longitude	90 34 51.7415232
Ellipsoid Height (M):	66.726
Geoid Height (M):	-28.273

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-141 AND HWY-135 IN HOOKER, GO WEST ON HWY-141 FOR 2.90 MILES TO THE STATION ON THE RIGHT ACROSS THE ROAD FROM WHITE FRAME HOUSE. 8.90 METERS NORTH OF THE CENTER OF HWY-141 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280014 2003" ON TOP OF A 1.22 METER IRON ROD DRIVE FLUSH WITH THE GROUND.WEST OF HOOKER, NORTH SIDE OF HIGHWAY 141, ACROSS ROAD FROM WHITE FRAME HOUSE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			4.30	14.1
MK # 2				
MK # 3				

AZ Mark Station	280014A
Geodetic Azimuth	250 35 23
Grid Azimuth	249 45 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLOOMFIELD CORS

Comments

3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280014A	2/10/2003	AHTD	GREENE	141	100570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	209,396.6880	
Easting (M)	527,198.6960	
Elevation (M)*	93.764	
Northing (SFT)	686,995.6339	
Easting (SFT)	1,729,651.0551	
Elevation (SFT)*	307.624	

Convergence Angle	0	49	23.3811856
Scale Factor			0.999995949
Elevation Adjust. Factor			0.9999852856
Combined Adjust. Factor			0.9999812347

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	44.9571060
Longitude	90	35	7.3971024
Ellipsoid Height (M):	65.462		
Geoid Height (M):	-28.272		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-135 AND HWY-141 IN HOOKER, GO WEST ON HWY-141 FOR 3.10 MILES TO THE STATION ON THE RIGHT. 10.0 METERS NORTH OF THE CENTER OF HWY-141 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280014A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND. WEST OF HOOKER, NORTH SIDE OF HIGHWAY 141

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	280014
Geodetic Azimuth	70 35 14
Grid Azimuth	69 45 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLOOMFIELD CORS

Comments

3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280015	2/10/2003	AHTD	GREENE	135	100570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,181.3100	
Easting (M)	531,633.8150	
Elevation (M)*	88.639	
Northing (SFT)	692,850.6812	
Easting (SFT)	1,744,201.9414	
Elevation (SFT)*	290.808	

Convergence Angle	0	51	7.3105692
Scale Factor	0.999998951		
Elevation Adjust. Factor	0.9999860899		
Combined Adjust. Factor	0.9999850409		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	40.7465328
Longitude	90	32	8.7933228
Ellipsoid Height (M):	60.322		
Geoid Height (M):	-28.282		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 135 AND HIGHWAY 141, GO NORTH ON HIGHWAY 135 0.30 MILES TO THE STATION ON THE LEFT. 9.70 METERS WEST OF THE CENTER OF HWY-135 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280015 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	280015A
Geodetic Azimuth	3 50 40
Grid Azimuth	2 59 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLOOMFIELD CORS

Comments

3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280015A	2/10/2003	AHTD	GREENE	135	100570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,785.3850	
Easting (M)	531,665.3940	
Elevation (M)*	87.840	
Northing (SFT)	694,832.5506	
Easting (SFT)	1,744,305.5468	
Elevation (SFT)*	288.190	

Convergence Angle	0	51	8.2556800
Scale Factor	1.000000022		
Elevation Adjust. Factor	0.9999862152		
Combined Adjust. Factor	0.9999862372		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	0.3272424
Longitude	90	32	7.1691396
Ellipsoid Height (M):	59.507		
Geoid Height (M):	-28.289		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STAT E HIGHWAY 135 AND HIGHWAY 141, GO NORTH ON HIGHWAY 135 0.70 MILES TO THE STATION ON THE RIGHT. 10.70 METERS EAST OF THE CENTER OF HWY-135, 14.50 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "280015A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	280015
Geodetic Azimuth	183 50 41
Grid Azimuth	182 59 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	BLOOMFIELD CORS

Comments

3 Wire Levels were ran by crew S5103 in Aug 03 from 1st order NGS mark Q 32 in job 100570.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280016	1/20/2009	AHTD	Greene	CR 628	100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	194,525.5469	
Easting (M)	528,563.4490	
Elevation (M)*	112.238	
Northing (SFT)	638,205.8985	
Easting (SFT)	1,734,128.5823	
Elevation (SFT)*	368.234	

Convergence Angle	0	49	50.1496415
Scale Factor	0.999973029		
Elevation Adjust. Factor	0.9999823865		
Combined Adjust. Factor	0.9999554160		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	41.8868940
Longitude	90	34	21.3952188
Ellipsoid Height (M):	84.144		
Geoid Height (M):	-28.104		

Location Description

To reach the station from the junction of Highways 49 and 412 in Paragould go west on 412 for 4.10 miles to Mt. Home road on the right. Turn right on Mt. Home road and go 0.90 miles to a fork, bear right on county road 628 and go 0.10 miles to the station on the right 27.0 feet west of a field entrance, 25.0 feet south of county road 628 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "280016 2009" set on top of a 5/8 inch by 4.00 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser box	50	20.27	66.5
MK # 2				
MK # 3				

AZ Mark Station	280016A
Geodetic Azimuth	89 01 30
Grid Azimuth	88 11 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG, ARBT BLMM
Ref Mon # 2	280012,280012A
Ref Mon # 3	280006,280006A

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark Q 324.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280016A	1/20/2009	AHTD	Greene	NA	100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	194,542.6049	
Easting (M)	529,104.5400	
Elevation (M)*	105.082	
Northing (SFT)	638,261.8629	
Easting (SFT)	1,735,903.8117	
Elevation (SFT)*	344.758	

Convergence Angle	0	50	2.7384254
Scale Factor	0.999973042		
Elevation Adjust. Factor	0.9999835094		
Combined Adjust. Factor	0.9999565519		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	42.1852548
Longitude	90	33	59.7612564
Ellipsoid Height (M):	76.981		
Geoid Height (M):	-28.107		

Location Description

To reach the station from the junction of Highways 49 and 412 in Paragould go west on 412 for 4.10 miles to Mt. Home road on the right. Turn right on Mt. Home road and go 0.90 miles to a fork, bear right on county road 628 and go 0.40 miles to the station on the right at the end of a wooden fence near the P.I. of a curve. 23.0 feet south of a gravel drive, 12.0 feet north of a gravel drive 3.90 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "280016A 2009" set on top of a 5/8 inch by 4.00 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser box	298	2.07	6.8
MK # 2	Combination pole with guy	127	15.70	51.5
MK # 3	Northwest corner of house #5289	190	26.97	88.5

AZ Mark Station	280016
Geodetic Azimuth	269 01 43
Grid Azimuth	268 11 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG, ARBT BLMM
Ref Mon # 2	280012,280012A
Ref Mon # 3	280006,280006A

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark Q 324.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280017	2/17/2010	AHTD	GREENE	34	100BR1, 100722

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	206,861.1300
Easting (M)	543,823.4240
Elevation (M)*	86.382
Northing (SFT)	678,676.8907
Easting (SFT)	1,784,194.0169
Elevation (SFT)*	283.404
Convergence Angle	0 55 49.6684156
Scale Factor	0.999991236
Elevation Adjust. Factor	0.9999864441
Combined Adjust. Factor	0.9999776802

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 11 14.4504996
Longitude	90 24 3.5582832
Ellipsoid Height (M):	58.144
Geoid Height (M):	-28.215

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAFE, GO EAST ON 34 6.4 MILES TO THE STATION MARK ON THE LEFT, EAST 14.1 FEET OF THE CENTERLINE OF A DIRT FIELD ROAD, NORTH 68.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 4.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	150	9.85	32.3
MK # 2	COMBINATION POLE WITH LIGHT	105	28.65	94.0
MK # 3	EAST END 20" CMP	177	10.55	34.6

AZ Mark Station	280017A
Geodetic Azimuth	94 05 02
Grid Azimuth	93 09 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOWS
Ref Mon # 2	TN42
Ref Mon # 3	ARPG

Comments

DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280017A	2/17/2010	AHTD	GREENE	34	00BR1, 100722, 100878,10063

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	206,825.2255	0.0010
Easting (M)	544,474.8630	0.0020
Elevation (M)*	85.357	
Northing (SFT)	678,559.0940	
Easting (SFT)	1,786,331.2797	
Elevation (SFT)*	280.043	

Convergence Angle	0	56	4.8241979
Scale Factor			0.999991159
Elevation Adjust. Factor			0.9999866048
Combined Adjust. Factor			0.9999777639

SUPERCEDED CONTROL

Horizontal Datum			NAVD 88
Latitude	36	11	12.9418080
Longitude	90	23	37.5129060
Ellipsoid Height:			57.049
Grid Northing (Meters)			206,825.2260
Grid Easting (Meters)			544,474.8630

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	11	12.9417936	
Longitude	90	23	37.5129060	
Ellipsoid Height (M):			57.049	0.0090
Geoid Height (M):			-28.309	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAFE, GO EAST ON 34 6.8 MILES TO THE STATION MARK ON THE RIGHT,, EAST 7.7 FEET OF THE CENTERLINE OF A ASPHALT FIELD ROAD, SOUTH 32.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280017A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF CMP	30	2.13	7.0
MK # 2	WEST END OF CMP	291	6.58	21.6
MK # 3				

AZ Mark Station	280017
Geodetic Azimuth	274 05 18
Grid Azimuth	273 09 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOWS
Ref Mon # 2	TN42
Ref Mon # 3	ARPG

Comments

DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722. Position superceded by cres S5113 in August 2016, during job 100870.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280018	2/17/2010	AHTD	GREENE	34	100BR1, 100722

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	206,842.6979	
Easting (M)	539,687.2510	
Elevation (M)*	105.881	
Northing (SFT)	678,616.4180	
Easting (SFT)	1,770,623.9227	
Elevation (SFT)*	347.376	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	11	16.0003896	
Longitude	90	26	49.0897716	
Ellipsoid Height (M):	77.636			
Geoid Height (M):	-28.210			

Convergence Angle	0	54	13.3457869	
Scale Factor	0.999991315			
Elevation Adjust. Factor	0.9999833842			
Combined Adjust. Factor	0.9999746993			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAFE, GO EAST ON 34 3.9 MILES TO THE STATION MARK ON THE LEFT, WEST 18.4 FEET OF THE CENTERLINE OF A DIRT FIELD ROAD, NORTH 34.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280018 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	20" CMP	152	3.96	13.0
MK # 2	18" PINE TREE	20	25.45	83.5
MK # 3				

AZ Mark Station	280018A
Geodetic Azimuth	267 27 46
Grid Azimuth	266 33 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOWS
Ref Mon # 2	TN42
Ref Mon # 3	ARPG

Comments

DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280018A	2/17/2010	AHTD	GREENE	34	100BR1, 100722

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	206,803.3370
Easting (M)	539,032.6110
Elevation (M)*	96.208
Northing (SFT)	678,487.2815
Easting (SFT)	1,768,476.1579
Elevation (SFT)*	315.644
Convergence Angle	0 53 58.0872025
Scale Factor	0.999991267
Elevation Adjust. Factor	0.9999849020
Combined Adjust. Factor	0.9999761691

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 11 15.0577296
Longitude	90 27 15.3118152
Ellipsoid Height (M):	67.970
Geoid Height (M):	-28.210

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAFE, GO EAST ON 34 3.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 31.6 FEET OF THE CENTERLINE OF A DIRT FIELD ROAD, SOUTH 35.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280018A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WESTERN MOST TRANSFORMER POLE	95	22.56	74.0
MK # 2				
MK # 3				

AZ Mark Station	280018
Geodetic Azimuth	87 27 31
Grid Azimuth	86 33 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOWS
Ref Mon # 2	TN42
Ref Mon # 3	ARPG

Comments

DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280019	2/17/2010	AHTD	GREENE	34	100BR1, 100722

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	208,421.5699
Easting (M)	537,184.2380
Elevation (M)*	127.597
Northing (SFT)	683,796.4339
Easting (SFT)	1,762,411.9542
Elevation (SFT)*	418.626
Convergence Angle	0 53 15.6291559
Scale Factor	0.999994027
Elevation Adjust. Factor	0.9999799762
Combined Adjust. Factor	0.9999740033

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 12 8.4878496
Longitude	90 28 28.2764316
Ellipsoid Height (M):	99.331
Geoid Height (M):	-28.227

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAFE, GO EAST ON 34 1.7 MILES TO THE STATION MARK ON THE LEFT, WEST 60.8 FEET OF THE CENTERLINE OF COUNTY ROAD 464, NORTH 39.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 52.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280019 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH 3 GUYS	306	28.86	94.7
MK # 2				
MK # 3				

AZ Mark Station	280019A
Geodetic Azimuth	271 22 39
Grid Azimuth	270 29 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOWS
Ref Mon # 2	TN42
Ref Mon # 3	ARPG

Comments

DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280019A	2/17/2010	AHTD	GREENE	34	100BR1, 100722

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	208,426.1980
Easting (M)	536,642.7980
Elevation (M)*	125.444
Northing (SFT)	683,811.6179
Easting (SFT)	1,760,635.5798
Elevation (SFT)*	411.561
Convergence Angle	0 53 3.0202867
Scale Factor	0.999994049
Elevation Adjust. Factor	0.9999803141
Combined Adjust. Factor	0.9999743633

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 12 8.9095860
Longitude	90 28 49.9449108
Ellipsoid Height (M):	97.171
Geoid Height (M):	-28.229

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 135, IN LAFE, GO EAST ON 34 1.4 MILES TO THE STATION MARK ON THE RIGHT, EAST 51.6 FEET OF THE CENTERLINE OF GRAVEL DRIVE, SOUTH 25.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "280019A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	20" CMP	265	12.28	40.3
MK # 2				
MK # 3				

AZ Mark Station	280019
Geodetic Azimuth	91 22 26
Grid Azimuth	90 29 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOWS
Ref Mon # 2	TN42
Ref Mon # 3	ARPG

Comments

DIGITAL LEVELS WERE RAN BY CREW S5110 IN MAY 2010 FROM NGS MARKS Q 32 AND U 187 IN JOB 100722.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280020		AHTD	Greene	412	100781,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,727.5871	
Easting (M)	514,792.1121	
Elevation (M)*	80.548	
Northing (SFT)	635,587.9253	
Easting (SFT)	1,688,947.1211	
Elevation (SFT)*	264.265	

Convergence Angle	0	44	29.6513685
Scale Factor	0.999972209		
Elevation Adjust. Factor	0.9999873596		
Combined Adjust. Factor	0.9999595689		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid12A		
Latitude	36	4	22.1295216
Longitude	90	43	32.1749976
Ellipsoid Height (M):	52.437		
Geoid Height (M):	-28.123		

Location Description

East of the county line on 412 for 5.4 miles to the county road #218 and go north for 0.2miles to the station on the left. The station is a standard alum. cap and set on a 4 foot rebar. It is 9 foot west of the witness post LAT: 36 04 22 LONG: 90 43 32

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South of P.P.	360	19.50	64.0
MK # 2	North of CL of DW	180	5.49	18.0
MK # 3	CL of County RD 218			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280020A		AHTD	Greene	412	100781,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,289.4829	
Easting (M)	515,069.9874	
Elevation (M)*	80.878	
Northing (SFT)	634,150.5785	
Easting (SFT)	1,689,858.7837	
Elevation (SFT)*	265.347	

Convergence Angle	0	44	35.9808468
Scale Factor			0.999971620
Elevation Adjust. Factor			0.9999873078
Combined Adjust. Factor			0.9999589281

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid12A		
Latitude	36	4	7.7996280
Longitude	90	43	21.2977200
Ellipsoid Height (M):	52.774		
Geoid Height (M):	-28.116		

Location Description

East on 412 from the G. & L. County line for 5.6 miles to the staion on the right. The station is a standard alum. cap set on a 4 foot rebar. LAT: 36 04 08 LONG: 90 43 21

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East of 72" cmp	302	5.50	18.0
MK # 2	East of asphault DW	270	9.14	30.0
MK # 3	CL of 412		18.00	59.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280021		AHTD	Greene	412	0781,Mobie LiDAR-CLS,1007

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	778,261.0810	
Easting (M)	519,688.2089	
Elevation (M)*	87.756	0.0004
Northing (SFT)	2,553,344.8966	
Easting (SFT)	1,705,010.3987	
Elevation (SFT)*	287.913	

Convergence Angle	0	44	35.6141236
Scale Factor	1.000551639		
Elevation Adjust. Factor	0.9999862284		
Combined Adjust. Factor	1.0005378598		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	4	9.5592756
Longitude	90	40	19.4771388
Ellipsoid Height (M):	59.612		
Geoid Height (M):	-28.150		

Location Description

Starting at the County line on highway 412 go east for 8.4 miles to the station on the left. The station is set in the N.E. Quadrant in the intersection of highways 141 and 412. It is a standard alum. cap set on a 4 foot rebar, and is 2 foot south of a witness post.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL highway 412		27.13	89.0
MK # 2	N.E. of 62" cmp		5.49	18.0
MK # 3	east of the edge of DW		3.35	11.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

G335 and F335.**********Elevation updated from 287.895' In Sept. 2017 by crew S5101 using digital levels from NGS Benches G335 and F335 during job 100762.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280021A		AHTD	Greene	412	100781,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,414.1670	
Easting (M)	520,199.2343	
Elevation (M)*	91.397	
Northing (SFT)	634,559.6462	
Easting (SFT)	1,706,686.9879	
Elevation (SFT)*	299.858	

Convergence Angle	0	46	35.2877428
Scale Factor	0.999971695		
Elevation Adjust. Factor	0.9999856570		
Combined Adjust. Factor	0.9999573524		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid12A		
Latitude	36	4	9.6375468
Longitude	90	39	56.2675176
Ellipsoid Height (M):	63.262		
Geoid Height (M):	-28.154		

Location Description

Starting at the G. & L. County line go east on highway 412 for 8.8 miles to the station on the right. The station is a standard alum. cap and 4 foot rebar. 9.5 foot north of a witness post. LAT:36 04 10 LONG: 90 39 56

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CL of highway 412	350	21.95	72.0
MK # 2	Concrete DW	80	5.79	19.0
MK # 3	6 foot chain link fence with 3 barbs	170	2.90	9.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280022	10/31/2012	AHTD	Greene	49	100632, 100632,100633

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	198,324.3028	
Easting (M)	540,270.0947	
Elevation (M)*	83.693	
Northing (SFT)	650,668.9834	
Easting (SFT)	1,772,536.1357	
Elevation (SFT)*	274.581	

Convergence Angle	0	54	23.7790841
Scale Factor	0.999978097		
Elevation Adjust. Factor	0.9999868661		
Combined Adjust. Factor	0.9999649634		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	6	39.3644304
Longitude	90	26	31.1600364
Ellipsoid Height (M):	55.412		
Geoid Height (M):	-28.281		

Location Description

From the intersection of Hwy.135 and Hwy.49 in Paragould, go north on Hwy.49 for 4.15 miles to the Greene Co. Rd 835, then go east on Greene Co. Rd 835 for 199.ft to the station on the left. A standard GPS Alum. cap stamped 280022 2012 on a 4.ft 5/8 inch rebar driven below ground surface. Lat-36.0639 Long-90.2631cm:published elev 274.581

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	326	17.67	58.0
MK # 2	Telephone box 22	271	15.85	52.0
MK # 3	Service pole 99	273	28.04	92.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

28 ft. north of CL Greene co. rd. 835, 6.5 ft. south of the w.p. Elevation determined by three wire levelsfrom NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280022A	10/31/2012	AHTD	Greene	49	100632

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	198,305.1515
Easting (M)	540,944.0272
Elevation (M)*	82.250
Northing (SFT)	650,606.1512
Easting (SFT)	1,774,747.1959
Elevation (SFT)*	269.849

Convergence Angle	0	54	39.4503010
Scale Factor	0.999978054		
Elevation Adjust. Factor	0.9999870924		
Combined Adjust. Factor	0.9999651467		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	36	6	38.3963544
Longitude	90	26	4.2288792
Ellipsoid Height (M):	53.970		
Geoid Height (M):	-28.282		

Location Description

From the intersection of Hwy.135 and Hwy.49 in Paragould, go north on Hwy.49 for 4.15 miles to the Greene Co. rd. 835, then go east on Greene Co. rd 835 for .425 miles to the station on the right. A standard GPS Alum cap stamped 280022A 2012 on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.0639 Long-90.2604

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	113	0.91	3.0
MK # 2	Well Head	131	30.18	99.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

25ft. south of CL Greene co. rd 835, 2.0 west of w.p. Elevation determined by three wire levelsfrom NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280023	10/31/2012	AHTD	Greene	49	100633, 100632,100633

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	201,974.2335	
Easting (M)	542,632.8145	
Elevation (M)*	82.424	
Northing (SFT)	662,643.7977	
Easting (SFT)	1,780,287.8256	
Elevation (SFT)*	270.419	

Convergence Angle	0	55	20.1118847
Scale Factor	0.999983476		
Elevation Adjust. Factor	0.9999870652		
Combined Adjust. Factor	0.9999705414		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	8	36.5456040
Longitude	90	24	54.3515040
Ellipsoid Height (M):	54.125		
Geoid Height (M):	-28.290		

Location Description

From the intersection of Hwy.49 and Hwy.34 in Marmaduke, go south on Hwy.49 for 3.45miles to Greene Co. rd 823, then go east on Greene Co. rd for .05miles to the station on the right. A standard GPS Alum cap stamped 280023 2012 on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.0836 Long-90.2454

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southeast corner of metal bridge rail	345	2.29	7.5
MK # 2	Telephone box 4317	323	3.35	11.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

25.5ft. south of CL of Greene Co. rd 823, 23ft. west of center of field rd. 2.0 ft. north of w.p. Elevation determined by three wire levelsfrom NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280023A	10/31/2012	AHTD	Greene	49	100633, 100632

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	201,975.8387	
Easting (M)	543,243.1053	
Elevation (M)*	81.526	
Northing (SFT)	662,649.0641	
Easting (SFT)	1,782,290.0880	
Elevation (SFT)*	267.472	

Convergence Angle	0	55	34.3159638
Scale Factor			0.999983463
Elevation Adjust. Factor			0.9999872062
Combined Adjust. Factor			0.9999706694

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	5	14.4587220
Longitude	90	24	29.9416320
Ellipsoid Height:			53.227
Grid Northing (Meters)			195,756.1913
Grid Easting (Meters)			543,343.6562

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	8	36.2782932
Longitude	90	24	29.9416392
Ellipsoid Height (M):	53.228		
Geoid Height (M):	-28.291		

Location Description

From the intersection of Hwy.49 and Hwy.34 in Marmaduke, go south on Hwy.49 for 3.45miles to the Greene Co. Rd 823, then go east on Greene Co. rd 823 for .4miles to the station on the right. A standard GPS Alum cap stamped 280023A 2012, on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.0836 Long-90.2430

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone box 4482	190	1.52	5.0
MK # 2	Power Pole	170	1.52	5.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

16ft. south of CL of Greene Co. rd 823, 96ft. west of gravel field entrance. 1.0ft North w.p. Elevation determined by three wire levelsfrom NGS BM FIRST, position determined by static GPS observation in May 2015 by crew s5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280024	10/31/2012	AHTD	Greene	49	100633, 100632

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,214.7455	
Easting (M)	544,575.8249	
Elevation (M)*	83.162	
Northing (SFT)	673,275.3775	
Easting (SFT)	1,786,662.5189	
Elevation (SFT)*	272.841	

Convergence Angle	0	56	6.5630487
Scale Factor			0.999988526
Elevation Adjust. Factor			0.9999869493
Combined Adjust. Factor			0.9999754755

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	10	20.6452560
Longitude	90	23	34.5246720
Ellipsoid Height (M):	54.866		
Geoid Height (M):	-28.302		

Location Description

From the intersection of Hwy.49 and Hwy.34 in Marmaduke, go south on Hwy. 49 for 1.1miles to Greene Co. rd 842, then go east on Greene Co. rd 842 for 109.ft to the station on the right. A standard GPS Alum cap stamped 280024 2012 on a 4ft 5/8inch rebar driven below ground surface. Lat-36.1021 Long-90.2334 23. ft south of CL Greene Co. rd. 842, 33. ft east of the east rail., 5.ft north of w.p.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	service pole	199	1.74	5.7
MK # 2	power pole with triple transformers	112	9.30	30.5
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

Position determined by static GPS observation in May 2015 by crew s5102. Elevation determined by digital levels by crew S5114 during job 100878 in Jan. 2017. Levels based on GPS mon 280017A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280024A	10/31/2012	AHTD	Greene	49	100633

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:				
Latitude				
Longitude				
Ellipsoid Height (M):				
Geoid Height (M):				

Location Description

From the intersection of Hwy.49 and Hwy.34 in Marmaduke, go south on Hwy.49 for 1.1miles to Greene Co. rd. 842, then go east on Greene Co. rd 842 for .4miles to the station on the left. A standard GPS Alum cap stamped 280024A 2012 on a 4ft. 5/8inch rebar driven below ground surface. Lat-36.1021 Long-90.2311

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	358	1.22	4.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

17ft. north of CL of Greene Co. Rd 842, 3ft. south of W.P.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280025	8/29/2017	AHTD	Greene	141	100762, 101107

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	188,272.8067	0.0030
Easting (M)	518,614.7183	0.0030
Elevation (M)*	122.918	0.0023
Northing (SFT)	617,691.7000	
Easting (SFT)	1,701,488.4550	
Elevation (SFT)*	403.274	

Convergence Angle	0	45	56.8455718
Scale Factor	0.999965210		
Elevation Adjust. Factor	0.9999807105		
Combined Adjust. Factor	0.9999459212		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	1	23.5321320
Longitude	90	41	2.3308080
Ellipsoid Height (M):	94.870	0.0000	
Geoid Height (M):	-28.049		

Location Description

From the intersection of US hwy 412 and AR hwy 141 west of Paragould AR travel south along hwy 141, 3.5 miles to reach the station on the left, 22.5' east of the CL of the hwy at Mt. Zion cemetery. The station is a standard 3" alum. Cap stamped 280025, 2017 on a 4' rebar driven 0.1' below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North post metal sign Mt Zion Cemetery	150	13.87	45.5
MK # 2	James & Rosetta Arnold headstone	100	8.39	27.5
MK # 3				

AZ Mark Station	280025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

G335 and F335 The station is 56.0' North of the center of the cemetery entrance.Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280025A	8/29/2017	AHTD	Greene	141	100762, 101107

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	188,641.3909	0.0030
Easting (M)	518,681.7681	0.0030
Elevation (M)*	107.587	0.0022
Northing (SFT)	618,900.9633	
Easting (SFT)	1,701,708.4342	
Elevation (SFT)*	352.976	

Convergence Angle	0	45	58.5183199
Scale Factor	0.999965654		
Elevation Adjust. Factor	0.9999831163		
Combined Adjust. Factor	0.9999487709		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	1	35.4608400
Longitude	90	40	59.4561720
Ellipsoid Height (M):	79.540	0.0040	
Geoid Height (M):	-28.056		

Location Description

From the intersection of US hwy 412 and AR hwy 141 west of Paragould AR travel south along hwy 141, 3.2 miles to reach the station on the right, 27.0' west of the CL of the hwy . The station is a standard 3" alum. Cap stamped 280025A, 2017 on a 4' rebar driven 0.1' below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South end of 18" CMP	45	2.74	9.0
MK # 2	Telephone Pedestal	110	22.50	73.8
MK # 3				

AZ Mark Station	280025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

The station is 19.0' south of the CL of a concrete driveway to two story brick home,3328 Hwy 141. Elevation derived by digital levels from NGS BMs by crew S5101 in Sept. 2017 during job 100762.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280026	9/13/2021	ARDOT	Greene	168	101127

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	184,466.4659	0.0040
Easting (M)	509,916.6578	0.0040
Elevation (M)*		

Northing (SFT)	605,203.7302	
Easting (SFT)	1,672,951.5681	
Elevation (SFT)*		

Convergence Angle	0	42	33.6113748
Scale Factor	0.999960935		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	59	23.6762268	
Longitude	90	46	51.5909928	
Ellipsoid Height (M):	49.722			0.0210
Geoid Height (M):	-27.955			0.0210

Location Description

From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 1.8 miles to Greene Co. Rd. 322. Go South/Right on Greene Co. Rd. 322 for 0.5 miles to the station on the right. The station is 12 ft. East of a witness post, 12.5 ft. West of the center of Greene Co. Rd. 322, 13.1 Ft. East of a power pole. The station mark is a 2 ½ in. cap stamped "280026 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	273	3.99	13.1
MK # 2				
MK # 3				

AZ Mark Station	280026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MOAT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280026A	9/13/2021	ARDOT	Greene	168	101127

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	184,864.1983	0.0030
Easting (M)	509,920.0019	0.0040
Elevation (M)*		
Northing (SFT)	606,508.6239	
Easting (SFT)	1,672,962.5396	
Elevation (SFT)*		

Convergence Angle	0	42	33.8034566
Scale Factor	0.999961379		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	59	36.5786088
Longitude	90	46	51.2608980
Ellipsoid Height (M):	49.767	0.0200	
Geoid Height (M):	-27.960	0.0200	

Location Description

From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 1.8 miles to Greene Co. Rd. 322. Go South/Right on Greene Co. Rd. 322 for 0.3 miles to the station on the right. The station is 5 ft. East of a witness post, 16.8 ft. West of the center of Greene Co. Rd. 322, 121 Ft. South of a power pole. The station mark is a 2 ½ in. cap stamped "280026A 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	359	36.88	121.0
MK # 2				
MK # 3				

AZ Mark Station	280026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MOAT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280027	9/13/2021	ARDOT	Greene	168	101127

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	185,592.8062	0.0040
Easting (M)	511,556.0836	0.0040
Elevation (M)*		

Northing (SFT)	608,899.0650	
Easting (SFT)	1,678,330.2509	
Elevation (SFT)*		

Convergence Angle	0	43	12.0237615
Scale Factor			0.999962179
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	59	59.5548024	
Longitude	90	45	45.5788872	
Ellipsoid Height (M):			51.879	0.0210
Geoid Height (M):			-27.974	0.0210

Location Description

From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 2.8 miles to Greene Co. Rd. 308. Go North/Left on Greene Co. Rd. 308 for 0.2 miles to the station on the right. The station is 5.9 ft. South of a witness post, 25.4 ft. East of center of Greene Co. Rd. 308, 6.00 Ft. South of a power pole, and 58.70 Ft. South of a well head. The station mark is a 2 ½ in. cap stamped "280027 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	14	1.83	6.0
MK # 2	Well Head	14	17.89	58.7
MK # 3				

AZ Mark Station	280027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MOAT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
280027A	9/13/2021	ARDOT	Greene	168	101127

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	186,009.3807	0.0040
Easting (M)	511,545.4331	0.0040
Elevation (M)*		
Northing (SFT)	610,265.7765	
Easting (SFT)	1,678,295.3084	
Elevation (SFT)*		

Convergence Angle	0	43	11.8979435
Scale Factor	0.999962656		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	0	13.0740984
Longitude	90	45	45.7951068
Ellipsoid Height (M):	51.284	0.0210	
Geoid Height (M):	-27.980	0.0210	

Location Description

From the junction of Hwy. 228 and Hwy. 168 in Fontaine. Go East on Hwy. 168 for 2.8 miles to Greene Co. Rd. 308. Go North/Left on Greene Co. Rd. 308 for 0.4 miles to the station on the Left. The station is 4.0 ft. South of a witness post, 22.6 ft. West of center of Greene Co. Rd. 308, 19.80 Ft North of a field entrance. The station mark is a 2 ½ in. cap stamped "280027A 2021" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	280027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MOAT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290001	2/1/2000	AHTD	HEMPSTEAD	174	R30045, 030078

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	510,716.9931
Easting (M)	250,841.6800
Elevation (M)*	98.850
Northing (SFT)	1,675,577.3349
Easting (SFT)	822,969.7451
Elevation (SFT)*	324.310

Convergence Angle	0	54	0.3635098
Scale Factor			0.999940337
Elevation Adjust. Factor			0.9999844875
Combined Adjust. Factor			0.9999248254

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	39	15.6271176
Longitude	93	36	29.5612452
Ellipsoid Height (M):	71.419		
Geoid Height (M):	-26.865		

Location Description

FROM THE JCT. OF HWY. 67 AND HWY. 174 IN HOPE, GO SOUTH ON HWY. 174 (SPRINGDALE DRIVE) FOR 1.367 KM (0.85 MI) TO THE JCT. WITH 16TH STREET. TUNR RIGHT ON 16FH STREET AND GO WEST 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT IN THE PARKING LOT OF THE CITY SOFTBALL FIELDS. THE STATION IS 13.35 METERS NORTH OF THE CENTER OF 16TH STREET AND 4.77 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "290001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH NAND SET IN A SQUARE CUTOUT IN THE PARKING LOT AND IS 5.0 CENTIMETERS BELOW THE SURFACE. THE SHOT DISTANCE IS 584.317 METERS. THIS STATION WAS UPDATED 3/2/00.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF CMP	130	9.55	31.3
MK # 2	COMBINATION POLE	240	8.30	27.2
MK # 3	LIGHT POLE	332	12.52	41.1

AZ Mark Station	290001A
Geodetic Azimuth	268 41 59.28629
Grid Azimuth	269 35 59.71225

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	NEW BOSTON MAG. STA.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290001A	2/1/2000	AHTD	HEMPSTEAD	174	R30045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	510,712.9132
Easting (M)	250,257.4110
Elevation (M)*	97.155
Northing (SFT)	1,675,563.9494
Easting (SFT)	821,052.8559
Elevation (SFT)*	318.749

Convergence Angle	0	54	13.0528598
Scale Factor			0.999940351
Elevation Adjust. Factor			0.9999847534
Combined Adjust. Factor			0.9999251054

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	39	15.1962012	
Longitude	93	36	52.2333216	
Ellipsoid Height (M):	69.697			
Geoid Height (M):	-26.869			

Location Description

FROM THE JCT. OF HWY. 67 AND HWY. 174 IN HOPE, GO SOUTH ON HWY. 174 (SPRINGDALE DRIVE) FOR 1.367 KM (0.85 MI) TO THE JCT. WITH 16TH STREET. TUNR RIGHT ON 16FH STREET AND GO WEST 0.836 KM (0.52 MI) TO THE STATION ON THE LEFT. THE STATION IS 26.75 METERS EAST OF A DRIVE WAY 30.0 METERS WEST OF A THE ENTRANCE TO A PASTURE 10.60 METERS SOUTH OF THE CENTER OF 16TH STREET AND 0.56 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "290001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 584.317 METERS. THIS STATION WAS UPDATED 3/2/00.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	265	18.10	59.4
MK # 2	EAST END 24" CMP	275	23.55	77.3
MK # 3	NONE			

AZ Mark Station	290001
Geodetic Azimuth	88 41 46.721859
Grid Azimuth	89 35 59.712246

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	NEW BOSTON MAG. STA.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290002	4/2/1996	AHTD	HEMPSTEAD	73	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	519,005.1151	
Easting (M)	239,751.3120	
Elevation (M)*	130.921	
Northing (SFT)	1,702,769.2818	
Easting (SFT)	786,584.0961	
Elevation (SFT)*	429.530	

Convergence Angle	0	58	4.2912776
Scale Factor			0.999932739
Elevation Adjust. Factor			0.9999794546
Combined Adjust. Factor			0.9999121950

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	43	38.7462972
Longitude	93	43	45.3872712
Ellipsoid Height (M):	103.359		
Geoid Height (M):	-27.562		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 73 & 195 IN THE SMALL VILLAGE OF CROSSROADS ABOUT 13 KM. NORTHWEST OF HOPE GO EAST ON HWY-73 FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE LEFT. 55.85 METERS EAST OF THE CENTER OF HWY-195, 13.60 METERS NORTH OF THE CENTER OF HWY-73 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290002 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	101	23.19	76.1
MK # 2	POWER POLE	282	31.31	102.7
MK # 3	NONE			

AZ Mark Station	290002A
Geodetic Azimuth	269 01 09.01567
Grid Azimuth	269 59 13.34417

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290002A	4/2/1996	AHTD	HEMPSTEAD	73	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	519,005.0172	
Easting (M)	239,320.3390	
Elevation (M)*	132.564	
Northing (SFT)	1,702,768.9606	
Easting (SFT)	785,170.1455	
Elevation (SFT)*	434.920	

Convergence Angle	0	58	13.6601068	
Scale Factor	0.999932745			
Elevation Adjust. Factor	0.9999791968			
Combined Adjust. Factor	0.9999119432			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	43	38.5065084	
Longitude	93	44	2.1265692	
Ellipsoid Height (M):	104.999			
Geoid Height (M):	-27.565			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 73 AND HIGHWAY 195 IN THE SMALL VILLAGE OF CROSSROADS ABOUT 13 KM. NORTHWEST OF HOPE GO EAST ON HWY-73 FOR 0.40 KM. (0.25 MI.) TO THE STATION ON THE LEFT. 11.80 METERS SOUTH OF HWY-73 AND 0.77 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290002A 1996" AND IS SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	263	14.70	48.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	290002
Geodetic Azimuth	89 00 59.72130
Grid Azimuth	89 59 13.34417

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290003	4/2/1996	AHTD	HEMPSTEAD	73	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	523,782.6451	
Easting (M)	235,293.3150	
Elevation (M)*	131.604	
Northing (SFT)	1,718,443.5615	
Easting (SFT)	771,958.1510	
Elevation (SFT)*	431.771	

Convergence Angle	0	59	43.0066670
Scale Factor	0.999929073		
Elevation Adjust. Factor	0.9999793475		
Combined Adjust. Factor	0.9999084219		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	46	11.3171052
Longitude	93	46	41.7621720
Ellipsoid Height (M):	103.985		
Geoid Height (M):	-27.619		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO EAST ON HWY-73 FOR 4.49 KM. (2.80 MI.) TO THE STATION ON THE RIGHT IN FRONT OF AN OLD BRICK SCHOOL HOUSE. 15.0 METERS NORTHWEST OF AN ENTRANCE TO THE OLD SCHOOL, 14.0 METERS SOUTHWEST OF THE CENTER OF HWY-73 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	206	14.10	46.3
MK # 2	LIGHT POLE	326	5.90	19.4
MK # 3	NONE			

AZ Mark Station	290003A
Geodetic Azimuth	152 54 30.80645
Grid Azimuth	153 54 13.79339

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290003A	4/2/1996	AHTD	HEMPSTEAD	73	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	523,263.3781	
Easting (M)	235,547.6580	
Elevation (M)*	129.107	
Northing (SFT)	1,716,739.9330	
Easting (SFT)	772,792.6080	
Elevation (SFT)*	423.579	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	45	54.6082236	
Longitude	93	46	31.5284448	
Ellipsoid Height (M):	101.493			
Geoid Height (M):	-27.614			

Convergence Angle	0	59	37.2789452
Scale Factor	0.999929448		
Elevation Adjust. Factor	0.9999797393		
Combined Adjust. Factor	0.9999091887		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO EAST ON HWY-73 FOR 5.05 KM. (3.15 MI.) TO THE STATION ON THE RIGHT. 16.30 METERS SOUTHEAST OF THE CENTER OF A WOODS ROAD, 11.60 METERS SOUTHWEST OF HWY-73 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	234	1.90	6.2
MK # 2	FENCE CORNER AND GATE POST	305	14.70	48.2
MK # 3	NONE			

AZ Mark Station	290003
Geodetic Azimuth	332 54 36.49461
Grid Azimuth	333 54 13.79339

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290004	4/2/1996	AHTD	HEMPSTEAD	73	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	524,678.4851	
Easting (M)	231,569.6220	
Elevation (M)*	133.984	
Northing (SFT)	1,721,382.6632	
Easting (SFT)	759,741.3348	
Elevation (SFT)*	439.579	

Convergence Angle	-1	1	4.3406946
Scale Factor			0.999928482
Elevation Adjust. Factor			0.9999789740
Combined Adjust. Factor			0.9999074575

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	46	38.2670868	
Longitude	93	49	7.0817736	
Ellipsoid Height (M):	106.303			
Geoid Height (M):	-27.645			

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS, LOCATED ABOUT 25.0 KILOMETERS NORTHWEST OF HOPE, GO EAST ON HIGHWAY 73 FOR 0.32 KILOMETERS 0.20 MILES TO THE STATION ON THE LEFT. 0.50 METERS SOUTH OF WITMESS POST, 7.10 METERS SOUTHEAST OF THE CENTER OF COUNTY ROAD 35N, 15.0 METERS NORTH OF THE CENTER OF HIGHWAY 73. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST END CULVERT	278	6.65	21.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	290004A
Geodetic Azimuth	243 38 32.73281
Grid Azimuth	244 39 37.09480

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290004A	4/2/1996	AHTD	HEMPSTEAD	73	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	524,538.2381	
Easting (M)	231,273.4580	
Elevation (M)*	130.717	
Northing (SFT)	1,720,922.5362	
Easting (SFT)	758,769.6701	
Elevation (SFT)*	428.861	

Convergence Angle	-1	1	10.7283300
Scale Factor			0.999928584
Elevation Adjust. Factor			0.9999794867
Combined Adjust. Factor			0.9999080721

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	46	33.5446644
Longitude	93	49	18.4945692
Ellipsoid Height (M):	103.071		
Geoid Height (M):	-27.646		

Location Description

THE STATION IS LOCATED IN THE SMALL TOWN OF COLUMBUS, LOCATED ABOUT 25 KILOMETERS NORTHWEST OF HOPE , ACROSS HIGHWAY 73 FROM THE POST OFFICE. 0.50 METERS SOUTHEAST OF A WITNESS POST, 6.20 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ROAD, 10.95 METERS NORTHWEST OF THE CENTER OF HIGHWAY 73. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST END OF CULVERT	102	5.65	18.5
MK # 2	LIGHT POLE	253	10.43	34.2
MK # 3	NORTHEAST END OF CULVERT	226	24.48	80.3

AZ Mark Station	290004
Geodetic Azimuth	63 38 26.38780
Grid Azimuth	64 39 37.09480

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088 ELEVATION ON THESE STATIONS WAS ARRIVED AT USING TBM'S ON JOB #30088.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290005	7/29/1998	AHTD	HEMPSTEAD	278	R30054

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	533,294.7132	
Easting (M)	233,146.8460	
Elevation (M)*	139.754	
Northing (SFT)	1,749,651.0716	
Easting (SFT)	764,915.9439	
Elevation (SFT)*	458.510	

Convergence Angle	-1	0	33.3356478
Scale Factor	0.999923334		
Elevation Adjust. Factor	0.9999780685		
Combined Adjust. Factor	0.9999014042		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	51	18.7988004
Longitude	93	48	11.6850204
Ellipsoid Height (M):	112.745		
Geoid Height (M):	-27.009		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 0.12 KM (0.07 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.37 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278 AND 2.26 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN LINE POST	288	15.90	52.2
MK # 2	WESTERN MOST WOODEN BRACE POST	121	30.12	98.8
MK # 3				

AZ Mark Station	290005A
Geodetic Azimuth	118 40 32.78041
Grid Azimuth	119 41 06.09912

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290005A	7/29/1998	AHTD	HEMPSTEAD	278	R30054

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	533,105.9681	
Easting (M)	233,477.9520	
Elevation (M)*	139.905	
Northing (SFT)	1,749,031.8303	
Easting (SFT)	766,002.2475	
Elevation (SFT)*	459.005	

Convergence Angle	-1	0	26.0548414
Scale Factor	0.999923424		
Elevation Adjust. Factor	0.9999780448		
Combined Adjust. Factor	0.9999014705		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	51	12.8625012
Longitude	93	47	58.6763952
Ellipsoid Height (M):	112.898		
Geoid Height (M):	-27.007		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 0.50 KM (0.31 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278 AND 1.55 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	290005
Geodetic Azimuth	298 40 40.02731
Grid Azimuth	299 41 06.09912

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290006	7/28/1998	AHTD	HEMPSTEAD	278	R30054

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	533,094.5431
Easting (M)	236,576.8950
Elevation (M)*	129.322
Northing (SFT)	1,748,994.3468
Easting (SFT)	776,169.3630
Elevation (SFT)*	424.284

Convergence Angle	0	59	18.5838895
Scale Factor			0.999923403
Elevation Adjust. Factor			0.9999797056
Combined Adjust. Factor			0.9999031101

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	51	14.2434540
Longitude	93	45	58.1259672
Ellipsoid Height (M):	102.328		
Geoid Height (M):	-26.994		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.75 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 278 AND 2.33 METERS NORTH OF A WITNESSS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN LINE POST	126	12.51	41.0
MK # 2	TELEPHONE JUNCTION BOX	287	15.50	50.9
MK # 3				

AZ Mark Station	290006A
Geodetic Azimuth	116 25 38.75647
Grid Azimuth	117 24 57.31552

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290006A	7/29/1998	AHTD	HEMPSTEAD	278	R30054

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	532,844.2771
Easting (M)	237,059.3730
Elevation (M)*	130.185
Northing (SFT)	1,748,173.2658
Easting (SFT)	777,752.2929
Elevation (SFT)*	427.115
Convergence Angle	0 59 7.9861408
Scale Factor	0.999923523
Elevation Adjust. Factor	0.9999795701
Combined Adjust. Factor	0.9999030947

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	51	6.3911952
Longitude	93	45	39.1909572
Ellipsoid Height (M):	103.195		
Geoid Height (M):	-26.990		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 4.43 KM (2.75 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.485 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 278 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	299	25.16	82.5
MK # 2	TELEPHONE JUNCTION BOX	226	27.56	90.4
MK # 3				

AZ Mark Station	290006
Geodetic Azimuth	296 25 49.30456
Grid Azimuth	297 24 57.31552

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290007	7/28/1998	AHTD	HEMPSTEAD	278	R30054

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	531,280.6691
Easting (M)	241,437.1740
Elevation (M)*	116.789
Northing (SFT)	1,743,043.3285
Easting (SFT)	792,115.1284
Elevation (SFT)*	383.165

Convergence Angle	0	57	32.1090374
Scale Factor			0.999924293
Elevation Adjust. Factor			0.9999816723
Combined Adjust. Factor			0.9999059667

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	50	18.0573432
Longitude	93	42	47.8872252
Ellipsoid Height (M):	89.825		
Geoid Height (M):	-26.964		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 9.98 KM (6.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.15 METERS EAST OF THE CENTER OF U.S. HIGHWAY 278, 7.92 METERS WEST OF THE WEST RAIL AND 1.39 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "290007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	R/W MARKED SIGN	48	1.50	4.9
MK # 2				
MK # 3				

AZ Mark Station	290007A
Geodetic Azimuth	325 20 54.09323
Grid Azimuth	326 18 26.22372

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290007A	7/29/1998	AHTD	HEMPSTEAD	278	R30054

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	531,853.9791
Easting (M)	241,054.9280
Elevation (M)*	113.627
Northing (SFT)	1,744,924.2631
Easting (SFT)	790,861.0429
Elevation (SFT)*	372.791

Convergence Angle	0	57	40.6388416
Scale Factor			0.999923993
Elevation Adjust. Factor			0.9999821685
Combined Adjust. Factor			0.9999061629

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	50	36.4555752
Longitude	93	43	3.1274364
Ellipsoid Height (M):	86.659		
Geoid Height (M):	-26.968		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND STATE HIGHWAY 332, LOCATED ABOUT 11.27 KM (7.00 MI) SOUTH OF NASHVILLE, GO EAST ON U.S. HIGHWAY 278 FOR 9.33 KM (5.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 20.50 METERS SOUTHEAST OF THE CENTER OF COUNTY ROAD 58, 11.90 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 278 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	153	19.60	64.3
MK # 2				
MK # 3				

AZ Mark Station	290007
Geodetic Azimuth	145 20 45.60615
Grid Azimuth	146 18 26.22372

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290008	2/1/1999	AHTD	HEMPSTEAD	174	R30045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	505,488.2721	
Easting (M)	247,778.9070	
Elevation (M)*	102.031	
Northing (SFT)	1,658,422.7727	
Easting (SFT)	812,921.2974	
Elevation (SFT)*	334.747	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	36	24.3525564	
Longitude	93	38	25.1705256	
Ellipsoid Height (M):	74.642			
Geoid Height (M):	-26.867			

Convergence Angle	0	55	5.0689473	
Scale Factor	0.999946149			
Elevation Adjust. Factor	0.9999839883			
Combined Adjust. Factor	0.9999301381			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 2.33 KM (1.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.50 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 174 AND 0.78 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A SANDARD 64mm CAP STAMPED "290008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.021 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END LINE BRACE POST	13	3.00	9.8
MK # 2	SOUTH END LINE BRACE POST	258	140.00	459.3
MK # 3	NONE			

AZ Mark Station	290008A
Geodetic Azimuth	211 31 02.88958
Grid Azimuth	212 26 07.98695

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	NEW BOSTON MAG. STA.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290008A	2/1/2000	AHTD	HEMPSTEAD	174	R30045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	505,107.6311
Easting (M)	247,537.0140
Elevation (M)*	98.429
Northing (SFT)	1,657,173.9530
Easting (SFT)	812,127.6868
Elevation (SFT)*	322.929

Convergence Angle	0	55	10.1874763
Scale Factor			0.999946599
Elevation Adjust. Factor			0.9999845535
Combined Adjust. Factor			0.9999311533

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	11.8730376
Longitude	93	38	34.3158072
Ellipsoid Height (M):	71.085		
Geoid Height (M):	-26.867		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 1.77 KM (1.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.60 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 174 AND 0.76 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 451.021 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	31	17.58	57.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	290008
Geodetic Azimuth	31 30 57.827972
Grid Azimuth	32 26 07.986947

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	NEW BOSTON MAG. STA.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290009	2/1/2000	AHTD	HEMPSTEAD	174	R30045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	508,184.3011	
Easting (M)	249,200.4910	
Elevation (M)*	92.818	
Northing (SFT)	1,667,267.9945	
Easting (SFT)	817,585.2776	
Elevation (SFT)*	304.520	

Convergence Angle	0	54	35.1377000
Scale Factor	0.999943069		
Elevation Adjust. Factor	0.9999854340		
Combined Adjust. Factor	0.9999285039		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	52.5876384
Longitude	93	37	31.6923312
Ellipsoid Height (M):	65.419		
Geoid Height (M):	-26.868		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 5.39 KM (3.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.40 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 174, 4.40 METERS SOUTHWEST OF THE CENTER OF A PASTURE ENTRANCE AND 0.45 METERS NORTHWEST OF AWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 311.558 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER FENCE POST	40	8.00	26.2
MK # 2	CORNER FENCE POST	70	1.70	5.6
MK # 3	SOUTHWEST END OF RCP	341	2.40	7.9

AZ Mark Station	290009A
Geodetic Azimuth	35 23 56.943791
Grid Azimuth	36 18 32.061077

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	NEW BOSTON MAG. STA.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290009A	2/1/2000	AHTD	HEMPSTEAD	174	R30045

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	508,435.3452	
Easting (M)	249,384.9610	
Elevation (M)*	88.232	
Northing (SFT)	1,668,091.6284	
Easting (SFT)	818,190.4929	
Elevation (SFT)*	289.474	

Convergence Angle	0	54	31.2184254
Scale Factor	0.999942791		
Elevation Adjust. Factor	0.9999861537		
Combined Adjust. Factor	0.9999289455		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	0.8302452
Longitude	93	37	24.6897588
Ellipsoid Height (M):	60.868		
Geoid Height (M):	-26.867		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 145 AND STATE HIGHWAY 355, LOCATED ABOUT 8.0 KM (5.00 MI) SOUTHWEST OF HOPE, GO NORTHEAST ON STATE HIGHWAY 174 FOR 5.71 KM (3.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.63 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF A BRIDGE OVER BLACK BRANCH, 6.70 METERS NORTHWEST OF THE CENTER OF STATE HIGWHAY 174 AND 0.90 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "290009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 311.558 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH MARK IN TOP OF METAL GUARD RAIL POST	46	4.30	14.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	290009
Geodetic Azimuth	215 24 00.82226
Grid Azimuth	216 18 32.06108

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	NEW BOSTON MAG. STA.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290016	5/23/2006	AHTD	Hempstead	NA	030330,030393

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	511,229.0252
Easting (M)	252,533.1090
Elevation (M)*	103.665
Northing (SFT)	1,677,257.2268
Easting (SFT)	828,519.0418
Elevation (SFT)*	340.107
Convergence Angle	0 53 23.7970640
Scale Factor	0.999939782
Elevation Adjust. Factor	0.9999837319
Combined Adjust. Factor	0.9999235149

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	39	33.1026696
Longitude	93	35	24.2279340
Ellipsoid Height (M):	76.789		
Geoid Height (M):	-26.853		

Location Description

To reach the station from the junction of highways 29B,67 and 278 in downtown Hope go south on 29B for 0.20 miles to 6th street. Turn right on 6th street and go one block to Elm street, turn left on Elm street and go 0.35 miles to the station on the left

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	179	10.40	34.1
MK # 2	Telephone junction box	155	15.35	50.4
MK # 3	Manhole	195	30.00	98.4

AZ Mark Station	290016A
Geodetic Azimuth	341 53 47
Grid Azimuth	342 47 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	Hope CORS ARP
Ref Mon # 2	Camden CORS ARP
Ref Mon # 3	Garland

Comments

Levels ran by crew s5113 on 07/08/2014 during job job C29002, elevation based on NGS BMs W 62-V 62.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290016A	5/23/2006	AHTD	Hempstead	NA	030330,030393

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	511,789.2382	
Easting (M)	252,359.5470	
Elevation (M)*	106.429	
Northing (SFT)	1,679,095.1923	
Easting (SFT)	827,949.6138	
Elevation (SFT)*	349.176	

Convergence Angle	0	53	27.7564468
Scale Factor	0.999939215		
Elevation Adjust. Factor	0.9999832981		
Combined Adjust. Factor	0.9999225141		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	39	51.1968024
Longitude	93	35	31.3021680
Ellipsoid Height (M):	79.554		
Geoid Height (M):	-26.857		

Location Description

To reach the station from the junction of highways 29B,67 and 278 in downtown Hope go south on 29B for 0.20 miles to 6th street. Turn right on 6th street and go one block to Elm street, turn right on Elm street and go 140.10 feet to the station on the lef

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	81	3.30	10.8
MK # 2	Gas meter	151	17.50	57.4
MK # 3	SE corner of brick library building	322	17.50	57.4

AZ Mark Station	290016
Geodetic Azimuth	161 53 43
Grid Azimuth	162 47 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	Hope CORS ARP
Ref Mon # 2	Camden CORS ARP
Ref Mon # 3	Garland

Comments

Levels ran by crew s5113 on 07/08/2014 during job job C29002, elevation based on NGS BMs W 62-V 62.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290017	6/25/2007	AHTD	HEMPSTEAD	29	030348

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	492,461.0682	
Easting (M)	248,978.3070	
Elevation (M)*	86.224	
Northing (SFT)	1,615,682.6879	
Easting (SFT)	816,856.3289	
Elevation (SFT)*	282.887	

Convergence Angle	0	54	34.5416281
Scale Factor	0.999963390		
Elevation Adjust. Factor	0.9999864688		
Combined Adjust. Factor	0.9999498593		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	29	22.1774172
Longitude	93	37	30.6273288
Ellipsoid Height (M):	59.436		
Geoid Height (M):	-26.781		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO SOUTH ON HIGHWAY 29 1.0 MILES TO THE STATION MARK ON THE LEFT, 16.0 FEET NORTHEAST OF THE CENTERLINE AN ASPH FIELD DRIVE, SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY 60.50 FEET AND NORTHWEST 19.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290017 2007" ON TOP OF A 2.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE OLD ROAD BED.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	290017A
Geodetic Azimuth	32 30 42
Grid Azimuth	33 25 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290017A	6/25/2007	AHTD	HEMPSTEAD	29	030348

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	493,173.4217
Easting (M)	249,448.3980
Elevation (M)*	94.648
Northing (SFT)	1,618,019.8010
Easting (SFT)	818,398.6191
Elevation (SFT)*	310.523

Convergence Angle	0	54	24.5949838
Scale Factor			0.999962328
Elevation Adjust. Factor			0.9999851469
Combined Adjust. Factor			0.9999474755

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	29	45.5386560
Longitude	93	37	12.8556480
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO SOUTH ON HIGHWAY 29 0.5 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY 67.3 FEET AND NORTHEAST 5.10 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290017A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	290017
Geodetic Azimuth	212 30 52
Grid Azimuth	213 25 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290018A	6/25/2007	AHTD	HEMPSTEAD	29	030348

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	502,302.9562	
Easting (M)	250,437.0400	
Elevation (M)*	110.801	
Northing (SFT)	1,647,972.2821	
Easting (SFT)	821,642.1887	
Elevation (SFT)*	363.519	

Convergence Angle	0	54	6.2760168
Scale Factor	0.999949935		
Elevation Adjust. Factor	0.9999826120		
Combined Adjust. Factor	0.9999325479		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	34	42.3437016
Longitude	93	36	40.1251284
Ellipsoid Height (M):	83.965		
Geoid Height (M):	-26.836		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355W AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO NORTH ON HIGHWAY 29 0.35 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 60.4 FEET AND EAST 9.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290018A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CABLE MARKER	271	2.23	7.3
MK # 2				
MK # 3				

AZ Mark Station	290018
Geodetic Azimuth	5 43 30
Grid Azimuth	6 37 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290019	6/25/2007	AHTD	HEMPSTEAD	29	030348

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	508,289.3861	
Easting (M)	252,180.8840	
Elevation (M)*	107.086	
Northing (SFT)	1,667,612.7609	
Easting (SFT)	827,363.4503	
Elevation (SFT)*	351.330	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	37	57.5190048	
Longitude	93	35	36.1221432	
Ellipsoid Height (M):	80.242			
Geoid Height (M):	-26.844			

Convergence Angle	0	53	30.4541421
Scale Factor	0.999942903		
Elevation Adjust. Factor	0.9999831950		
Combined Adjust. Factor	0.9999260990		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355W AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO NORTH ON HIGHWAY 29 4.1 MILES TO THE STATION MARK ON THE RIGHT, NORTH 74.0 FEET OF THE CENTERLIN OF A CONCRETE DRIVE, EAST OF THE CENTERLINE OF THE HIGHWAY 78.0 FEET, AND WEST 7.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290019 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	188	36.88	121.0
MK # 2	WATER METER	30	15.85	52.0
MK # 3	POWER POLE	98	2.23	7.3

AZ Mark Station	290019A
Geodetic Azimuth	204 47 27
Grid Azimuth	205 40 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

3 WIRE LEVELS FROM SECOND ORDER NGS MARKS U 62 AND V 62 BY S5102 9/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290019A	6/25/2007	AHTD	HEMPSTEAD	29	030348

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,727.3131	
Easting (M)	251,910.5860	
Elevation (M)*	113.863	
Northing (SFT)	1,665,768.6931	
Easting (SFT)	826,476.6476	
Elevation (SFT)*	373.564	

Convergence Angle	0	53	36.1334119
Scale Factor	0.999943527		
Elevation Adjust. Factor	0.9999821316		
Combined Adjust. Factor	0.9999256596		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	39.1402632
Longitude	93	35	46.2693012
Ellipsoid Height (M):	87.019		
Geoid Height (M):	-26.844		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355W AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO NORTH ON HIGHWAY 29 3.7 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 66.7 FEET AND EAST 11.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290019A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	207	22.37	73.4
MK # 2	NORTH END OF AN 18" CMP	169	16.31	53.5
MK # 3				

AZ Mark Station	290019
Geodetic Azimuth	24 47 21
Grid Azimuth	25 40 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

3 WIRE LEVELS FROM SECOND ORDER NGS MARKS U 62 AND V 62 BY S5102 9/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290020	6/25/2007	AHTD	HEMPSTEAD	355	030348

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	494,821.3562	
Easting (M)	254,383.3220	
Elevation (M)*	96.971	
Northing (SFT)	1,623,426.3995	
Easting (SFT)	834,589.2823	
Elevation (SFT)*	318.147	

Convergence Angle	0	52	38.1490674
Scale Factor	0.999959834		
Elevation Adjust. Factor	0.9999847823		
Combined Adjust. Factor	0.9999446169		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	30	41.5162980
Longitude	93	34	2.6686056
Ellipsoid Height (M):	70.206		
Geoid Height (M):	-26.765		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 355E AND ARKANSAS STATE HIGHWAY 29, SOUTH OF HOPE, GO EAST ON HIGHWAY 355 2.9 MILES TO THE STATION MARK ON THE RIGHT, WEST OF THE CENTERLINE OF COUNTY ROAD 144S 24.6 FEET, SOUTH OF THE CENTERLINE OF THE HIGHWAY 36.7 FEET AND WEST 43.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290020 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND IN THE OLD RAIL ROAD BED.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	25	26.58	87.2
MK # 2	C 63 BM IN SOUTH END HEADWALL	169	19.51	64.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290021	4/20/2010	AHTD	HEMPSTEAD	371	030387

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	543,740.1921
Easting (M)	235,215.2670
Elevation (M)*	116.486
Northing (SFT)	1,783,920.9469
Easting (SFT)	771,702.0885
Elevation (SFT)*	382.172
Convergence Angle	0 59 52.2645364
Scale Factor	0.999919557
Elevation Adjust. Factor	0.9999817198
Combined Adjust. Factor	0.9999012783

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	56	58.9640928
Longitude	93	46	58.3032180
Ellipsoid Height (M):	89.398		
Geoid Height (M):	-27.088		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 371 AND STATE HIGHWAY 278, EAST OF NASHVILLE, GO SOUTH ON 371 FOR 3.4 MILES TO THE STATION MARK ON THE LEFT, NORTH 38 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 2.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290021 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROIUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	67	26.28	86.2
MK # 2				
MK # 3				

AZ Mark Station	290021A
Geodetic Azimuth	93 48 46
Grid Azimuth	94 48 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	OKHV

Comments

DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 4/26/10 FROM RV 605 AND CKECKED BY GPS USING C 62.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290021A	4/20/2010	AHTD	HEMPSTEAD	371	030387

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	543,692.6781	
Easting (M)	235,779.8320	
Elevation (M)*	112.032	
Northing (SFT)	1,783,765.0614	
Easting (SFT)	773,554.3322	
Elevation (SFT)*	367.559	

Convergence Angle	0	59	39.9416660
Scale Factor	0.999919565		
Elevation Adjust. Factor	0.9999824188		
Combined Adjust. Factor	0.9999019852		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	56	57.7406904
Longitude	93	46	36.2859312
Ellipsoid Height (M):	84.948		
Geoid Height (M):	-27.084		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 371 AND STATE HIGHWAY 278, EAST OF NASHVILLE, GO SOUTH ON 371 FOR 3.7 MILES TO THE STATION MARK ON THE RIGHT, 9.3 FEET WEST OF THE CENTERLINE OF A DIRT FIELD ROAD, SOUTH 27 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 38.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "290021A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROIUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	149	14.63	48.0
MK # 2	CENTER OF FENCE GAP	167	12.19	40.0
MK # 3				

AZ Mark Station	290021
Geodetic Azimuth	273 48 59
Grid Azimuth	274 48 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	OKHV

Comments

DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 4/26/10 FROM RV 605 AND CKECKED BY GPS USING C 62.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290022	1/22/2014	AHTD	HEMPSTEAD	I 30	BB0306

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	509,356.0574	0.0020
Easting (M)	242,691.6454	0.0020
Elevation (M)*	82.891	
Northing (SFT)	1,671,112.3317	
Easting (SFT)	796,230.8399	
Elevation (SFT)*	271.950	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	38	27.1895064	
Longitude	93	41	44.9724336	
Ellipsoid Height (M):	55.871			0.0084
Geoid Height (M):	-27.019			0.0084

Convergence Angle	0	56	56.8962145
Scale Factor	0.999941911		
Elevation Adjust. Factor	0.9999869919		
Combined Adjust. Factor	0.9999289037		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 6.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 7.2 FEET FROM THE EDGE OF THE ASPHALT, WEST 55.5 FEET OF A FENECE AND NORTH 55.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290022" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER OF HEADWALL	205	6.80	22.3
MK # 2				
MK # 3				

AZ Mark Station	290022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	TXCR

Comments

Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervison of the NGS Advisor.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290022A	1/22/2014	AHTD	HEMPSTEAD	I 30	BB0306

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	509,597.5847	0.0020
Easting (M)	243,264.1603	0.0020
Elevation (M)*	86.124	

Northing (SFT)	1,671,904.7425	
Easting (SFT)	798,109.1659	
Elevation (SFT)*	282.559	

Convergence Angle	0	56	44.5494596	
Scale Factor			0.999941643	
Elevation Adjust. Factor			0.9999864845	
Combined Adjust. Factor			0.9999281283	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	38	35.3354172	
Longitude	93	41	22.9124724	
Ellipsoid Height (M):			59.107	0.0088
Geoid Height (M):			-27.017	0.0088

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 6.9 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 8.7 FEET FROM THE EDGE OF THE ASPHALT, AND NORTH 18.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290022A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	290022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	TXCR

Comments

Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervison of the NGS Advisor.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290023	1/22/2014	AHTD	HEMPSTEAD	I 30	BB0306

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	510,774.6163	0.0030
Easting (M)	246,007.8607	0.0030
Elevation (M)*	84.669	
Northing (SFT)	1,675,766.3870	
Easting (SFT)	807,110.7896	
Elevation (SFT)*	277.784	

Convergence Angle	0	55	45.3771361
Scale Factor	0.999940357		
Elevation Adjust. Factor	0.9999867129		
Combined Adjust. Factor	0.9999270707		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	33	39	14.9925672
Longitude	93	39	37.1892132
Ellipsoid Height (M):	57.661	0.0101	
Geoid Height (M):	-27.008	0.0101	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 8.8 MILES TO THE STATION MARK ON THE LEFT, NORTH 5.5 FEET FROM THE BACK OF THE CURB, AND NORTH 5.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290023" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	196	2.44	8.0
MK # 2				
MK # 3				

AZ Mark Station	290023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	TXCR

Comments

Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervison of the NGS Advisor.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290023A	1/22/2014	AHTD	HEMPSTEAD	I 30	BB0306

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	511,083.4846	0.0030
Easting (M)	246,779.2808	0.0020
Elevation (M)*	84.632	
Northing (SFT)	1,676,779.7324	
Easting (SFT)	809,641.6904	
Elevation (SFT)*	277.664	

Convergence Angle	0	55	28.7297390	
Scale Factor			0.999940025	
Elevation Adjust. Factor			0.9999867186	
Combined Adjust. Factor			0.9999267444	

Vertical Determined By:	3rd Order - Digital Levels	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12A	
Latitude	33 39 25.4218572	
Longitude	93 39 7.4452896	
Ellipsoid Height (M):	57.627	0.0103
Geoid Height (M):	-27.005	0.0103

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 9.3 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 4.4 FEET FROM THE EDGE OF THE ASPHALT, AND EAST 13.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290023A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER OF BRIDGE	260	4.24	13.9
MK # 2				
MK # 3				

AZ Mark Station	290023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	TXCR

Comments

Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervison of the NGS Advisor.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290024	1/22/2014	AHTD	HEMPSTEAD	I 30	BB0306

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	512,471.3034	0.0030
Easting (M)	249,172.0324	0.0020
Elevation (M)*	91.126	
Northing (SFT)	1,681,332.9346	
Easting (SFT)	817,491.9096	
Elevation (SFT)*	298.968	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	40	11.7067512	
Longitude	93	37	35.4393696	
Ellipsoid Height (M):	64.131			0.0101
Geoid Height (M):	-26.994			0.0101

Convergence Angle	0	54	37.2348825
Scale Factor	0.999938582		
Elevation Adjust. Factor	0.9999856996		
Combined Adjust. Factor	0.9999242825		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 11.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 8.5 FEET FROM THE EDGE OF THE ASPHALT, AND NORTHWEST 12.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290024" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF BOX CULVERT	111	4.42	14.5
MK # 2				
MK # 3				

AZ Mark Station	290024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	TXCR

Comments

Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervison of the NGS Advisor.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290024A	1/22/2014	AHTD	HEMPSTEAD	I 30	BB0306, 3720_7

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	512,975.9615	0.0020
Easting (M)	249,769.0397	0.0020
Elevation (M)*	100.196	

Northing (SFT)	1,682,988.6337	
Easting (SFT)	819,450.5911	
Elevation (SFT)*	328.725	

Convergence Angle	0	54	24.4386286	
Scale Factor			0.999938074	
Elevation Adjust. Factor			0.9999842763	
Combined Adjust. Factor			0.9999223513	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	40	28.3925892	
Longitude	93	37	12.5762880	
Ellipsoid Height (M):			73.205	0.0099
Geoid Height (M):			-26.991	0.0099

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND EXIT 18 OVERPASS, SOUTHEAST OF FULTON, GO EAST ON I 40 11.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 7.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 290024A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	15	3.66	12.0
MK # 2	END OF PARAPET WALL	317	2.44	8.0
MK # 3				

AZ Mark Station	290024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	TXCR

Comments

Elevation established by 3rd Order Digital Levels from NGS 2nd Order BM's G 337 & J 337 by Crew S5112 in Jan./Feb. of 2014 for Job #BB0306. Elevations not yet published. Obtained Elevations from S5111 who ran the 1st Order line under the supervison of the NGS Advisor.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290025	5/19/2015	AHTD	HEMPSTEAD	I 40	BB0305

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	507,961.7586	0.0020
Easting (M)	238,306.4282	0.0030
Elevation (M)*		
Northing (SFT)	1,666,537.8697	
Easting (SFT)	781,843.6732	
Elevation (SFT)*		

Convergence Angle	0	58	31.6138454
Scale Factor	0.999943513		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	37	39.5479632
Longitude	93	44	34.2045348
Ellipsoid Height (M):	63.666	0.0016	
Geoid Height (M):	-27.026	0.0016	

Location Description

TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 278 OVERPASS (EXIT 30), NORTH OF HOPE, GO WEST ON I 40 FOR 8.65 MILES TO THE MARK ON THE RIGHT, NORTH 7.5 FEET OF THE EDGE OF THE ASPHAULT AND SOUTH 21 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290025" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	290025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	TXCR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290025A	5/19/2015	AHTD	HEMPSTEAD	I 40	BB0305

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	508,036.9942	0.0030
Easting (M)	238,892.6222	0.0030
Elevation (M)*		
Northing (SFT)	1,666,784.7051	
Easting (SFT)	783,766.8780	
Elevation (SFT)*		

Convergence Angle	0	58	18.9132140
Scale Factor	0.999943419		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	37	42.3130080
Longitude	93	44	11.5123020
Ellipsoid Height (M):	62.290		0.0013
Geoid Height (M):	-27.025		0.0013

Location Description

TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 278 OVERPASS (EXIT 30), NORTH OF HOPE, GO WEST ON I 40 FOR 8.3 MILES TO THE MARK ON THE LEFT, SOUTH 18 FEET OF THE EDGE OF THE ASPHAULT AND NORTH 38 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290025A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET	173	43.00	141.1
MK # 2				
MK # 3				

AZ Mark Station	290025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	TXCR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290026	5/19/2015	AHTD	HEMPSTEAD	I 40	BB0305

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	507,215.7771	0.0030
Easting (M)	234,115.9054	0.0030
Elevation (M)*		
Northing (SFT)	1,664,090.4287	
Easting (SFT)	768,095.2663	
Elevation (SFT)*		

Convergence Angle	-1	0	2.3212095
Scale Factor	0.999944429		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	37	12.9923004
Longitude	93	47	16.2714876
Ellipsoid Height (M):	55.401	0.0031	
Geoid Height (M):	-27.035	0.0031	

Location Description

TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 278 OVERPASS (EXIT 30), NORTH OF HOPE, GO WEST ON I 40 FOR 11.25 MILES TO THE MARK ON THE LEFT, IN THE MEDIAN, 13 FEET SOUTH OF THE EDGE OF THE ASPHAULT. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290026" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF GUARD RAIL	131	83.20	273.0
MK # 2				
MK # 3				

AZ Mark Station	290026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	TXCR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290026A	5/19/2015	AHTD	HEMPSTEAD	I 40	BB0305

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	507,290.8117	0.0030
Easting (M)	234,559.3400	0.0030
Elevation (M)*		
Northing (SFT)	1,664,336.6047	
Easting (SFT)	769,550.1013	
Elevation (SFT)*		

Convergence Angle	0	59	52.7219599
Scale Factor	0.999944335		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	37	15.6785016
Longitude	93	46	59.1204972
Ellipsoid Height (M):	55.311	0.0030	
Geoid Height (M):	-27.034	0.0030	

Location Description

TO REACH THE MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 67 OVERPASS (EXIT 18), EAST OF FULTON, GO EAST ON I 40 FOR 1.2 MILES TO THE MARK ON THE RIGHT, SOUTH 14.5 FEET OF THE EDGE OF THE ASPHAULT. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 290026A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS LINE VENT	129	79.50	260.8
MK # 2	GAS LINE VENT	169	57.50	188.6
MK # 3				

AZ Mark Station	290026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	TXCR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290027	2/28/2024	AHTD	Hempstead	332	03X316

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83(2011)

Northing (M)	524,879.8952	0.0010
Easting (M)	258,177.5012	0.0010
Elevation (M)*	95.516	0.0055
Northing (SFT)	1,722,043.4562	
Easting (SFT)	847,037.3519	
Elevation (SFT)*	313.371	

Convergence Angle	0	51	25.6245103
Scale Factor	0.999928040		
Elevation Adjust. Factor	0.9999850107		
Combined Adjust. Factor	0.9999130518		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	46	58.9345428
Longitude	93	31	53.0888952
Ellipsoid Height (M):	68.542		0.0050
Geoid Height (M):	-26.969		

Location Description

In Hope AR Hempstead CO. Exit 31. Intersection of Hwy 32 and interstate 30 go north 1.1 Miles on hwy 32 to the intersection of Hwy 32 and Hwy 29. Go north on Hwy 29 for 5.4 miles to the intersection of Hwy 29 and Hwy 332 go East on Hwy 332 for 2.8 miles to the station on the right. The station is a standerd 2.5in. aluminum ARDOT GPS cap stamped 290027, 2024 set just below the surface of the ground ontop of a 5/8 rebar 4 ft. in length. The station is 22 ft. Southeast of the center of Hwy 332 and 10 ft. Northwest of a witness post. bb

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fence Coner	255	22.00	72.2
MK # 2				
MK # 3				

AZ Mark Station	290027A
Geodetic Azimuth	66 46 54
Grid Azimuth	65 55 28.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARDQ
Ref Mon # 3	ARGS

Comments

ELEV DERIVED FROM STATIC OBS. HOLDING BM HOPE 1 TO GPS 290027A. 3WR DIGITAL LEVELS WERE RAN FROM 290027A HOLDING THE STATIC DERIVED ELEV DURING JOB 03X16 BY CREW S5102 IN FEB 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
290027A	2/28/2024	AHTD	Hempstead	332	03X316

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83(2011)

Northing (M)	525,036.4450	0.0010
Easting (M)	258,557.9863	0.0010
Elevation (M)*	95.223	0.0054
Northing (SFT)	1,722,557.0700	
Easting (SFT)	848,285.6601	
Elevation (SFT)*	312.412	

Convergence Angle	0	51	17.3983615
Scale Factor	0.999927929		
Elevation Adjust. Factor	0.9999850566		
Combined Adjust. Factor	0.9999129866		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	47	4.1998596
Longitude	93	31	38.3912256
Ellipsoid Height (M):	68.257		0.0050
Geoid Height (M):	-26.967		

Location Description

In Hope AR Hempstead CO. Exit 31. Intersection of Hwy 32 and Interstate 30. go North on Hwy 32 for 1.1 Miles to the intersection of Hwy 32 and Hwy 29. go north on Hwy 29 for 5.4 Miles to the intersection of Hwy 29 and Hwy 332. Go East on Hwy 332 for 3.0 Miles to the station on the right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 290027A, 2024. set just below ground surface ontop of a 5/8in. rebar 4 ft. in lenght. The station is 26 ft. Southeast of the center of Hwy 332 and 3 ft. Northwest of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fence Coner	40	6.40	21.0
MK # 2				
MK # 3				

AZ Mark Station	290027
Geodetic Azimuth	246 46 54
Grid Azimuth	247 38 11.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARDQ
Ref Mon # 3	ARGS

Comments

ELEV DERIVED FROM STATIC OBS. HOLDING BM HOPE 1 TO GPS 290027A DURING JOB 03X16 BY CREW S5102 IN FEB 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
3 SEM 1968	3/1/1968	USC & GS	BENTON	16	090282

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	202,619.4879
Easting (M)	177,136.8080
Elevation (M)*	339.107
Northing (SFT)	664,760.7699
Easting (SFT)	581,156.3442
Elevation (SFT)*	1,112.552

Convergence Angle	-1	26	27.3933084
Scale Factor			0.999981940
Elevation Adjust. Factor			0.9999467860
Combined Adjust. Factor			0.9999287269

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	8	3.7980636	
Longitude	94	28	34.5919944	
Ellipsoid Height (M):	310.887			
Geoid Height (M):	-28.220			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 16, IN SILOAM SPRINGS, GO EAST ON 16 FOR 4.5 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 39.5 FEET OF THE CENTERLINE OF THE HIGHWAY. IT IS 0.50 FEET NOTRH OF AN ORANGE WITNESS POST. THE STATION MARK IS A BRASS CAP SET IN CONCRETE "3 SEM 1968".

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S/E END OF AN 18" CMP	338	31.33	102.8
MK # 2				
MK # 3				

AZ Mark Station	040103
Geodetic Azimuth	311 42 31
Grid Azimuth	313 08 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	OKTU
Ref Mon # 2	WWED
Ref Mon # 3	CTA1

Comments

ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 3 SEM 1968 AND CHECKED USING CHSLD SQ ON THE N/W COR. OF BRIDGE OVER THE ILLINOIS RIVER. CREW S5112 ON 10-5-2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300001	6/10/1999	AHTD	HOT SPRING	67	IAR605

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	588,650.3489	
Easting (M)	325,025.9000	
Elevation (M)*	84.954	
Northing (SFT)	1,931,263.6863	
Easting (SFT)	1,066,355.8069	
Elevation (SFT)*	278.720	

Convergence Angle	0	27	22.3428192
Scale Factor	0.999935047		
Elevation Adjust. Factor	0.9999866681		
Combined Adjust. Factor	0.9999217160		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	21	53.4903048
Longitude	92	48	54.3758220
Ellipsoid Height (M):	58.572		
Geoid Height (M):	-26.381		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 67, U.S. HIGHWAY 270 AND STATE HIGHWAY 9, LOCATED IN MALVERN, GO SOUTHWEST ON U.S. HIGHWAY 67 (PAGE STREET) FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF PECAN STREET, TURN RIGHT NORTHWEST ON PECAN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF FRIST STREET, TURN RIGHT, NORTHEAST ON FIRST STREET FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.20 METERS NORTHWEST OF THE CENTER OF FRIST STREET, 11.32 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM A 79 BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RAILROAD MILE MARKER SIGN 389	252	21.11	69.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300001A
Geodetic Azimuth	226 23 16.42511
Grid Azimuth	226 50 38.73925

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING FROM NGS BM A 79 BY CREW S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300001A	6/10/1999	AHTD	HOT SPRING	67	IAR605

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	588,359.4299	
Easting (M)	324,715.6240	
Elevation (M)*	83.529	
Northing (SFT)	1,930,309.2296	
Easting (SFT)	1,065,337.8431	
Elevation (SFT)*	274.045	

Convergence Angle	0	27	29.0883227
Scale Factor			0.999934782
Elevation Adjust. Factor			0.9999868917
Combined Adjust. Factor			0.9999216746

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	21	43.9683948	
Longitude	92	49	6.4280208	
Ellipsoid Height (M):	57.143			
Geoid Height (M):	-26.386			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 67, U.S. HIGHWAY 270 AND STATE HIGHWAY 9, LOCATED IN MALVERN, GO SOUTHWEST ON U.S. HIGHWAY 67 (PAGE STREET) FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF PECAN STREET, TURN RIGHT NORTHWEST ON PECAN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF FIRST STREET AND THE STATION ON THE LEFT. THE STATION IS 17.50 METERS SOUTHWEST OF THE EXTENDED CENTER OF PECAN STREET, 12.90 METERS NORTHWEST OF THE CENTER OF FRIST STREET, 8.70 METERS SOUTHEAST OF THE SOUTHEAST RAIL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300001
Geodetic Azimuth	46 23 09.622342
Grid Azimuth	46 50 38.739250

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300002	2/18/2000	AHTD	HOT SPRING	70	060900, 061243, 061611

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	593,578.6697	0.0010
Easting (M)	324,486.7627	0.0010
Elevation (M)*	103.686	
Northing (SFT)	1,947,432.6855	
Easting (SFT)	1,064,586.9873	
Elevation (SFT)*	340.176	

Convergence Angle	0	27	35.0185748
Scale Factor			0.999939803
Elevation Adjust. Factor			0.9999837286
Combined Adjust. Factor			0.9999235325

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	24	33.2944200
Longitude	92	49	17.0246532
Ellipsoid Height:			77.328
Grid Northing (Meters)			593,578.6669
Grid Easting (Meters)			324,486.7360

Vertical Determined By:	2nd Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	24	33.2945172	
Longitude	92	49	17.0236092	
Ellipsoid Height (M):			77.190	0.0070
Geoid Height (M):			-26.484	0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO NORTH ON U.S. HIGHWAY 270 FOR 1.43 KM (0.89 MI) TO THE JUNCTION OF STATE HIGHWAY 51 AND THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS EAST OF THE 270 WEST BOUND LANE, 17.70 METERS WEST OF THE CENTER OF A PAVED ROAD, 8.75 METERS SOUTH OF THE CENTER OF A PAVED ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300002 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 333.334 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300002A
Geodetic Azimuth	201 24 28.27288
Grid Azimuth	201 52 03.27918

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARRV

Comments

Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check. SUPERCEDED GEOID HT. -26.390m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300002A	11/18/2000	AHTD	HOT SPRING	70	060900, 061243, 061611

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	593,269.3443	0.0010
Easting (M)	324,362.6161	0.0010
Elevation (M)*	104.469	
Northing (SFT)	1,946,417.8404	
Easting (SFT)	1,064,179.6830	
Elevation (SFT)*	342.745	

Convergence Angle	0	27	37.6848862
Scale Factor			0.999939486
Elevation Adjust. Factor			0.9999836057
Combined Adjust. Factor			0.9999230927

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	24	23.2232364
Longitude	92	49	21.7884936
Ellipsoid Height:			78.118
Grid Northing (Meters)			593,269.3408
Grid Easting (Meters)			324,362.5910

Vertical Determined By:	2nd Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	24	23.2233552	
Longitude	92	49	21.7875108	
Ellipsoid Height (M):			77.975	0.0070
Geoid Height (M):			-26.487	0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO NORTH ON U.S. HIGHWAY 270 FOR 1.10 KM (0.68 MI) TO THE STATION ON THE RIGHT. THE STATION IS 47.50 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 270, 24.50 METERS SOUTH OF THE CENTER OF A PAEVED ROAD, 6.40 METERS SOUTHEAST OF THE CENTER OF A CONCRETE DITCH AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300002A 2000" SET ON TOP OF AN IRON ROD 0.61METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 333.334 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300002
Geodetic Azimuth	21 24 25.580926
Grid Azimuth	21 52 03.279179

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARRV

Comments

Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check. SUPERCEDED GEOID HT. -26.391m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300003	2/18/2000	AHTD	HOT SPRING	CR 75	060900

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	593,951.1619	
Easting (M)	328,903.8530	
Elevation (M)*	94.799	
Northing (SFT)	1,948,654.7703	
Easting (SFT)	1,079,078.7244	
Elevation (SFT)*	311.020	

Convergence Angle	0	25	58.2749735
Scale Factor			0.999940223
Elevation Adjust. Factor			0.9999851232
Combined Adjust. Factor			0.9999253471

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	24	46.4999724	
Longitude	92	46	24.1717044	
Ellipsoid Height (M):	68.459			
Geoid Height (M):	-26.340			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTH ON U.S. HIGHWAY 270 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF MILITARY ROAD ON THE LEFT, GO LEFT, EAST, ON MITILARY ROAD FOR 0.77 KM (0.48 MI) TO THE JUNCTION OF NIX ROAD STRAIGHT AHEAD, CONTINUE EAST ON NIX ROAD FOR 1.48 KM (0.92 MI) TO THE "T" JUNCTION OF SAND ROAD, GO LEFT, NORTH, ON SAND ROAD FOR 4.18 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.25 METERS NORTH OF THE CENTER OF SAND ROAD, 1.11 METERS SOUTH OF A FENCE LINE AND 0.93 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300003 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 247.219 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSSTIE GATE POST	65	6.22	20.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300003A
Geodetic Azimuth	30 52 53.049729
Grid Azimuth	31 18 51.338300

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300003A	2/18/2000	AHTD	HOT SPRING	CR 75	060900

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	594,162.3549	
Easting (M)	329,032.3320	
Elevation (M)*	89.615	
Northing (SFT)	1,949,347.6594	
Easting (SFT)	1,079,500.2426	
Elevation (SFT)*	294.012	

Convergence Angle	0	25	55.4940030
Scale Factor			0.999940444
Elevation Adjust. Factor			0.9999859367
Combined Adjust. Factor			0.9999263815

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	24	53.3854908	
Longitude	92	46	19.2029412	
Ellipsoid Height (M):	63.275			
Geoid Height (M):	-26.340			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTH ON U.S. HIGHWAY 270 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF MILITARY ROAD ON THE LEFT, GO LEFT, EAST, ON MITILARY ROAD FOR 0.77 KM (0.48 MI) TO THE JUNCTION OF NIX ROAD STRAIGHT AHEAD, CONTINUE EAST ON NIX ROAD FOR 1.48 KM (0.92 MI) TO THE "T" JUNCTION OF SAND ROAD, GO LEFT, NORTH, ON SAND ROAD FOR 4.34 KM 2.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.20 METERS WEST OF THE CENTER OF SAND ROAD, 2.60 METERS EAST OF A FENCE LINE AND 2.35 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300003A 2000" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 247.219 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300003
Geodetic Azimuth	210 52 55.85791
Grid Azimuth	211 18 51.33830

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300004A	2/18/2000	AHTD	HOT SPRING	67	060900

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	588,556.9279	
Easting (M)	329,153.0980	
Elevation (M)*	102.151	
Northing (SFT)	1,930,957.1876	
Easting (SFT)	1,079,896.4557	
Elevation (SFT)*	335.140	

Convergence Angle	0	25	51.9227276
Scale Factor	0.999934991		
Elevation Adjust. Factor	0.9999839694		
Combined Adjust. Factor	0.9999189615		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	21	51.4955664
Longitude	92	46	12.8221392
Ellipsoid Height (M):	75.825		
Geoid Height (M):	-26.327		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 AND U.S. HIGHWAY 67, LOCATED ON THE SOUTHEAST SIDE OF MALVERN, GO WEST ON U.S. HIGHWAY 270 AND U.S. HIGHWAY 67 FOR 0.35 KM (0.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.40 METERS SOUTH OF THE CENTER OF THE U.S. HIGHWAYS 270 AND 67 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300004A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 406.551 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	281	6.76	22.2
MK # 2	GUY POLE	257	15.03	49.3
MK # 3	NONE			

AZ Mark Station	300004
Geodetic Azimuth	74 18 18.615088
Grid Azimuth	74 44 10.574323

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	AP 1970 STA A3 HOT

Comments

Elev. Based on 3WR Levels from a single 2nd Order NGS Mark C 79 by S5105 in March of 2000 for Job #060900. *Note: Did not tie C 79 to any other NGS Marks for a check.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300005	4/5/2001	AHTD	HOT SPRING	30	060938, 061243, 061611

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	591,512.7637	0.0010
Easting (M)	322,875.5740	0.0010
Elevation (M)*	82.609	
Northing (SFT)	1,940,654.7922	
Easting (SFT)	1,059,300.9457	
Elevation (SFT)*	271.026	

Convergence Angle	0	28	9.9583615
Scale Factor			0.999937722
Elevation Adjust. Factor			0.9999870361
Combined Adjust. Factor			0.9999247589

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	23	25.8246348
Longitude	92	50	19.4504100
Ellipsoid Height:			56.259
Grid Northing (Meters)			591,512.7907
Grid Easting (Meters)			322,875.5782

Vertical Determined By:			NONE
Elevation Datum:			NONE
Geoid Datum:			Geoid 18
Latitude	34	23	25.8237600
Longitude	92	50	19.4505666
Ellipsoid Height (M):			56.125 0.0070
Geoid Height (M):			-26.514 0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTHWEST ON I-30 FOR 1.26 KM (0.78 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN AT THE NORTH END OF A BRIDGE. THE STATION IS 18.35 METERS WEST OF THE CENTER OF THE EAST BOUND LANE OF I-30, 12.30 METERS EAST OF THE CENTER OF THE WEST BOUND LANE OF I-30 AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.809 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE GUARD RAIL POST	305	6.65	21.8
MK # 2	CONCRETE GUARD RAIL POST	165	7.65	25.1
MK # 3	NONE			

AZ Mark Station	300005A
Geodetic Azimuth	55 13 30.722108
Grid Azimuth	55 41 40.728595

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARRV

Comments

Elev. Based on 3WR Levels from AHTD GPS #300002A by S5101 in June of 2001 for Job #060938. AHTD GPS #300002A Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check.
SUPERCEDED GEOID HT. -26.414m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300005A	4/5/2001	AHTD	HOT SPRING	30	060938, 061611

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	591,840.6522	0.0010
Easting (M)	323,356.1517	0.0010
Elevation (M)*	84.560	
Northing (SFT)	1,941,730.5398	
Easting (SFT)	1,060,877.6410	
Elevation (SFT)*	277.428	

Convergence Angle	0	27	59.4868585
Scale Factor			0.999938047
Elevation Adjust. Factor			0.9999867299
Combined Adjust. Factor			0.9999247777

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	23	36.5933148
Longitude	92	50	0.7412640
Ellipsoid Height:			58.200
Grid Northing (Meters)			591,840.6792
Grid Easting (Meters)			323,356.1483

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:	Geoid 18			
Latitude	34	23	36.5924400	
Longitude	92	50	0.7411200	
Ellipsoid Height (M):			58.101	0.0070
Geoid Height (M):			-26.505	0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND U.S. HIGHWAY 270, LOCATED ON THE NORTH SIDE OF MALVERN, GO SOUTHWEST ON I-30 FOR 0.69 KM (0.43 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS EAST 13.30 METERS WEST OF THE CENTER OF I-30 EAST BOUND LANE, 12.25 METERS EAST OF THE CENTER OF I-30 WEST BOUND LANE AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "300005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.809 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	300005
Geodetic Azimuth	235 13 41.29000
Grid Azimuth	235 41 40.72860

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARRV

Comments

Elev. Based on 3WR Levels from AHTD GPS #300002A by S5101 in June of 2001 for Job #060938. AHTD GPS #300002A Elev. Based on 3WR Levels from a single 2nd Order NGS Mark M 140 by S5105 in March of 2000 for Job #060900. *Note: Did not tie M 140 to any other NGS Marks for a check.
SUPERCEDED GEOID HT. -26.406m, REF. MONUMENTS K 124, AHTD LR1, AP 1970 STA A3 HOT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300006	1/9/2003	AHTD	HOT SPRING	67	061084

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	574,356.3669
Easting (M)	313,888.4140
Elevation (M)*	
Northing (SFT)	1,884,367.5137
Easting (SFT)	1,029,815.5716
Elevation (SFT)*	

Convergence Angle	0	31	23.4429256
Scale Factor			0.999924583
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	14	6.4947264
Longitude	92	56	5.1496620
Ellipsoid Height (M):	40.298		
Geoid Height (M):	-26.602		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 51 AND U.S. HIGHWAY 67 LOCATED IN DONALDSON, GO SOUTHWEST ON U.S. HIGHWAY 67 FOR 0.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.20 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 67, 7.80 METERS WEST OF A GRAVEL DRIVE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "300006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PIPE GATE POST	358	17.00	55.8
MK # 2	PIPE GATE POST	25	21.10	69.2
MK # 3				

AZ Mark Station	300006A
Geodetic Azimuth	261 30 40
Grid Azimuth	262 02 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	RUSSPORT, LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300006A	1/9/2003	AHTD	HOT SPRING	67	061084

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	574,282.1129
Easting (M)	313,357.7590
Elevation (M)*	
Northing (SFT)	1,884,123.8987
Easting (SFT)	1,028,074.5810
Elevation (SFT)*	
Convergence Angle	0 31 35.0339026
Scale Factor	0.999924540
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 14 3.9270660
Longitude	92 56 25.8592740
Ellipsoid Height (M):	40.154
Geoid Height (M):	-26.610

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 51 AND U.S. HIGHWAY 67 LOCATED IN DONALDSON, GO SOUTHWEST ON U.S. HIGHWAY 67 FOR 0.82 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.20 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 67 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "300006A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	170	10.80	35.4
MK # 2				
MK # 3				

AZ Mark Station	300006
Geodetic Azimuth	81 30 29
Grid Azimuth	82 02 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	RUSSPORT, LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300007	8/18/2011	AHTD	HOT SPRING	7	061309,060432,061440

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	591,569.5307	0.0000
Easting (M)	296,920.8883	0.0000
Elevation (M)*	164.507	
Northing (SFT)	1,940,841.0353	
Easting (SFT)	974,147.9477	
Elevation (SFT)*	539.719	

Vertical Determined By:	3rd Order - digital			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	23	19.6033308	
Longitude	93	7	15.5397036	
Ellipsoid Height (M):	137.371			0.0000
Geoid Height (M):	-27.122			0.0000

Convergence Angle	0	37	38.6539884
Scale Factor	0.999937535		
Elevation Adjust. Factor	0.9999741842		
Combined Adjust. Factor	0.9999117208		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290 , SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 2.65 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 65.4 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300007 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	170	12.04	39.5
MK # 2	CENTER OF PIPE GATE	30	23.62	77.5
MK # 3	4" PVC PIPE IN FENCE	240	9.54	31.3

AZ Mark Station	260030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN NOV. OF 2011 BY DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139. ALSO TIED LOOP TO 3RD ORDER NGS MARK V 139 RESET AS CHECK BUT DID NOT CONSTRAIN (MISSED V 139 RESET BY +0.018').

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300008	9/29/2014	AHTD	Hot Spring	7	061440

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	590,323.6176	0.0020
Easting (M)	293,348.0294	0.0020
Elevation (M)*	201.514	
Northing (SFT)	1,936,753.4021	
Easting (SFT)	962,425.9931	
Elevation (SFT)*	661.135	

Convergence Angle	0	38	56.6260954	
Scale Factor			0.999936308	
Elevation Adjust. Factor			0.9999683768	
Combined Adjust. Factor			0.9999046868	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	34	22	37.8778944	
Longitude	93	9	34.8525576	
Ellipsoid Height (M):	174.324			0.0040
Geoid Height (M):	-27.181			0.0040

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 5.1 MILES TO THE MARK ON THE RIGHT, NORTH 57 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 27 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300008" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	300008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS. THEY HELD FIXED NGS 3RD ORDER BM V 139 RESET ALONG W/ELEVATIONS FROM JOB # 060432 TBM # 918 & AHTD GPS #'S 260030 & 300007 WHICH WERE BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300008A	9/29/2014	AHTD	Hot Spring	7	061440

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	590,274.8146	0.0020
Easting (M)	292,687.5895	0.0020
Elevation (M)*	223.309	
Northing (SFT)	1,936,593.2876	
Easting (SFT)	960,259.1999	
Elevation (SFT)*	732.641	

Convergence Angle	0	39	11.0821643	
Scale Factor			0.999936255	
Elevation Adjust. Factor			0.9999649567	
Combined Adjust. Factor			0.9999012140	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	34	22	36.0505200	
Longitude	93	10	0.6812328	
Ellipsoid Height (M):	196.098	0.0040		
Geoid Height (M):	-27.194	0.0040		

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 5.5 MILES TO THE MARK ON THE RIGHT, NORTH 22.7 FEET OF THE EDGE OF THE PAVEMENT AND SOUTH 20.1 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300008A" ON TOP OF A 3 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	300008
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS. THEY HELD FIXED NGS 3RD ORDER BM V 139 RESET ALONG W/ELEVATIONS FROM JOB # 060432 TBM # 918 & AHTD GPS #'S 260030 & 300007 WHICH WERE BASED ON DIGITAL LEVELS FROM NGS 2ND ORDER BM S 139.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300009	9/29/2014	AHTD	Hot Spring	7	061440, 012275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	585,817.6046	0.0020
Easting (M)	291,495.6216	0.0020
Elevation (M)*		
Northing (SFT)	1,921,969.9244	
Easting (SFT)	956,348.5519	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	20	10.9563252	
Longitude	93	10	45.3262296	
Ellipsoid Height (M):	142.252	0.0050		
Geoid Height (M):	-27.160	0.0050		

Convergence Angle	0	39	36.0695533
Scale Factor	0.999932311		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 9.7 MILES TO THE MARK ON THE LEFT, EAST 23 FEET OF THE CENTERLINE OF THE HIGHWAY AND 250 FEET NORTH OF THE CENTERLINE OF TOMAHAWK LANE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300009" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	300009A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300009A	9/29/2014	AHTD	Hot Spring	7	061440, 012275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	585,327.6188	0.0030
Easting (M)	291,778.0604	0.0030
Elevation (M)*		
Northing (SFT)	1,920,362.3627	
Easting (SFT)	957,275.1865	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	19	55.1600688	
Longitude	93	10	34.0563000	
Ellipsoid Height (M):	146.817			0.0050
Geoid Height (M):	-27.149			0.0050

Convergence Angle	0	39	29.7618786
Scale Factor	0.999931911		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 290E, SOUTH OF HOT SPRINGS, GO SOUTH ON HIGHWAY 7 FOR 10 MILES TO THE MARK ON THE RIGHT, WEST 24.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 15 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300009A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	300009
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300010	9/29/2014	AHTD	Hot Spring	7	061440, 012275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	581,822.6576	0.0020
Easting (M)	292,796.3929	0.0020
Elevation (M)*	157.399	
Northing (SFT)	1,908,863.1691	
Easting (SFT)	960,616.1657	
Elevation (SFT)*	516.401	

Convergence Angle	0	39	6.5920362
Scale Factor	0.999929215		
Elevation Adjust. Factor	0.9999752995		
Combined Adjust. Factor	0.9999045163		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	18	1.7893656
Longitude	93	9	52.6587156
Ellipsoid Height (M):	130.308	0.0050	
Geoid Height (M):	-27.087	0.0050	

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 1.15 MILES TO THE MARK ON THE RIGHT, WEST 28.3 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	319	98.40	322.8
MK # 2				
MK # 3				

AZ Mark Station	300010A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300010A	9/29/2014	AHTD	Hot Spring	7	061440, 012275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	581,155.9433	0.0020
Easting (M)	293,008.1166	0.0020
Elevation (M)*	148.821	

Northing (SFT)	1,906,675.7906	
Easting (SFT)	961,310.7959	
Elevation (SFT)*	488.258	

Convergence Angle	0	39	1.7923086
Scale Factor	0.999928737		
Elevation Adjust. Factor	0.9999766456		
Combined Adjust. Factor	0.9999053843		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	17	40.2300744
Longitude	93	9	44.0830368
Ellipsoid Height (M):	121.755		0.0060
Geoid Height (M):	-27.076		0.0060

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 1.6 MILES TO THE MARK ON THE LEFT, EAST 43.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND 39 FEET WEST OF THE CENTERLINE OF TUPELO TRAIL. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300010A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH GUY	281	14.00	45.9
MK # 2				
MK # 3				

AZ Mark Station	300010
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300011	9/30/2014	AHTD	Hot Spring	7	061440, 012275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	578,245.1693	0.0020
Easting (M)	294,661.6804	0.0020
Elevation (M)*	141.574	
Northing (SFT)	1,897,126.0263	
Easting (SFT)	966,735.8631	
Elevation (SFT)*	464.479	

Convergence Angle	0	38	24.8909625
Scale Factor	0.999926781		
Elevation Adjust. Factor	0.9999777830		
Combined Adjust. Factor	0.9999045656		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	16	6.3685416
Longitude	93	8	38.1513588
Ellipsoid Height (M):	114.567	0.0040	
Geoid Height (M):	-27.015	0.0040	

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 3.9 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 27.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 68 FEET OF THE CENTERLINE OF CADDO DRIVE AND EAST 45.5 OF THE SOUTHEAST CORNER OF A ONE STORY WOOD FRAME HOUSE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	300011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300011A	9/30/2014	AHTD	Hot Spring	7	061440, 012275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	577,953.8205	0.0030
Easting (M)	295,169.8235	0.0020
Elevation (M)*	146.543	
Northing (SFT)	1,896,170.1594	
Easting (SFT)	968,402.9959	
Elevation (SFT)*	480.782	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	15	57.0969252	
Longitude	93	8	18.1607352	
Ellipsoid Height (M):	119.529			0.0050
Geoid Height (M):	-27.002			0.0050

Convergence Angle	0	38	13.7023966
Scale Factor	0.999926599		
Elevation Adjust. Factor	0.9999770032		
Combined Adjust. Factor	0.9999036039		

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 4.3 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 18.7 FEET OF THE CENTERLINE OF THE HIGHWAY, 124 FEET NORTHWEST OF THE CENTERLINE OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300011A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	294	118.00	387.1
MK # 2				
MK # 3				

AZ Mark Station	300011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. ESTABLISHED BY B&F ENGINEERING IN FALL OF 2014 USING DIGITAL LEVELS FOR JOB #061440. THEY HELD FIXED NGS 3RD ORDER BM A 151 RESET & NGS 2ND ORDER BM Y 140.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300012	9/30/2014	AHTD	Hot Spring	7	061440

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	575,967.3040	0.0020
Easting (M)	297,278.6193	0.0020
Elevation (M)*		
Northing (SFT)	1,889,652.7299	
Easting (SFT)	975,321.6035	
Elevation (SFT)*		

Convergence Angle	0	37	27.0917659	
Scale Factor	0.999925402			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	34	14	53.3794740	
Longitude	93	6	54.8814672	
Ellipsoid Height (M):	111.000	0.0040		
Geoid Height (M):	-26.944	0.0040		

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 6.3 MILES TO THE MARK ON THE RIGHT, SOUTH 26 FEET OF THE EDGE OF THE PAVEMENT AND SOUTH 1.65 FEET OF A WITNESS POST AND NORTH 15.2 FEET OF THE CENTERLINE OF A UNNAMED STATE PARK ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF EAST END OF HEADWALL	289	73.00	239.5
MK # 2				
MK # 3				

AZ Mark Station	300012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300012A	9/30/2014	AHTD	Hot Spring	7	061440

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	575,967.5423	0.0020
Easting (M)	296,579.2718	0.0020
Elevation (M)*		
Northing (SFT)	1,889,653.5117	
Easting (SFT)	973,027.1609	
Elevation (SFT)*		

Convergence Angle	0	37	42.3892474
Scale Factor	0.999925398		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	34	14	53.1390912	
Longitude	93	7	22.2134952	
Ellipsoid Height (M):	111.354			0.0050
Geoid Height (M):	-26.957			0.0050

Location Description

FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 84, IN BISMARK, GO SOUTH ON HIGHWAY 7 FOR 6.3 MILES AND THEN RIGHT 0.4 MILES ON EDGEWOOD CADDO DRIVE TO THE MARK ON THE LEFT, SOUTH 19.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.75 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 300012A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	300012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300013	2/26/2015	AHTD	HOT SPRING	I 40	061450, 061460

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	587,157.6164	0.0020
Easting (M)	317,874.9673	0.0020
Elevation (M)*		
Northing (SFT)	1,926,366.2798	
Easting (SFT)	1,042,894.7886	
Elevation (SFT)*		

Convergence Angle	0	29	58.6946185
Scale Factor	0.999933671		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	34	21	3.1089348	
Longitude	92	53	33.7297632	
Ellipsoid Height (M):	78.361			0.0070
Geoid Height (M):	-26.623			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 OVERPASS (EXIT 97) AND INTERSTATE 40, NORTHWEST OF MALVERN, GO WEST ON I 40 3.6 MILES TO THE REST AREA AND ENTER REST AREA ON LEFT AND CONTINUE IN THE TRUCK LANE NEXT TO THE GUARD RAIL TO THE MARK ON THE LEFT IN A GRASSEY MEDIUM, 2.0 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 300013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW CORNER REST ROOM BLDGING	94	190.00	623.4
MK # 2	ABOVE GROUND WATER SPIGOT	172	115.00	377.3
MK # 3	LIGHT POLE	11	101.00	331.4

AZ Mark Station	300013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

GPS DERIVED ELEV. FROM CONSTRAINING ORTHOMETRIC HEIGHTS ON CORS ARCM & ARHP ALONG W/NGS 2ND ORDER BM A 81 IN THE FINAL STATIC NETWORK ADJUSTMENT TO AVOID RUNNING AN UNNECESSARY LONG LEVEL LOOP TO THE JOB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300013A	2/26/2015	AHTD	HOT SPRING	I 40	061450, 061460

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	586,880.0869	0.0020
Easting (M)	317,490.3412	0.0020
Elevation (M)*		
Northing (SFT)	1,925,455.7518	
Easting (SFT)	1,041,632.8944	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	34	20	53.9928312	
Longitude	92	53	48.6851028	
Ellipsoid Height (M):	82.745		0.0070	
Geoid Height (M):	-26.630		0.0070	

Convergence Angle	0	30	7.0649827
Scale Factor	0.999933429		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 OVERPASS (EXIT 97) AND INTERSTATE 40, NORTHWEST OF MALVERN, GO WEST ON I 40 3.9 MILES TO THE MARK ON THE RIGHT, LOCATED AT THE NORTHEAST CORNER OF THE OVERPASS, 2.7 FEET NORTHEAST OF A WITNESS POST, NORTHEAST OF THE CENTERLINE OF COUNTY ROAD 1586 (GRIGSBY FORD ROAD). THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 300013A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER OF OVERPASS	185	8.00	26.2
MK # 2	NORTH END OF PARAPET WALL	309	14.10	46.3
MK # 3				

AZ Mark Station	300013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

GPS DERIVED ELEV. FROM CONSTRAINING ORTHOMETRIC HEIGHTS ON CORS ARCM & ARHP ALONG W/NGS 2ND ORDER BM A 81 IN THE FINAL STATIC NETWORK ADJUSTMENT TO AVOID RUNNING AN UNNECESSARY LONG LEVEL LOOP TO THE JOB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300014	3/15/2016	AHTD	HOT SPRING	171	061456

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	593,865.7551	0.0020
Easting (M)	316,528.7644	0.0020
Elevation (M)*		
Northing (SFT)	1,948,374.5649	
Easting (SFT)	1,038,478.1212	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	24	40.4299692	
Longitude	92	54	28.7350884	
Ellipsoid Height (M):	100.171	0.0050		
Geoid Height (M):	-26.633	0.0050		

Convergence Angle	0	30	29.4805867
Scale Factor	0.999940030		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 171 AND STATE HIGHWAY 290, NORTHWEST OF MALVERN, GO SOUTH ON HIGHWAY 171 3.3 MILES TO THE MARK ON THE LEFT, NORTH 17.6 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300014 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST GATE POST	313	13.59	44.6
MK # 2	TELEPHONE POLE	33	15.54	51.0
MK # 3	CENTER OF NORTH HEADWALL	86	32.61	107.0

AZ Mark Station	300014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300014A	3/15/2016	AHTD	HOT SPRING	171	061456

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	593,879.9170	0.0020
Easting (M)	315,970.5857	0.0020
Elevation (M)*		
Northing (SFT)	1,948,421.0277	
Easting (SFT)	1,036,646.8299	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	24	40.7283624	
Longitude	92	54	50.5971684	
Ellipsoid Height (M):	106.112			0.0050
Geoid Height (M):	-26.648			0.0050

Convergence Angle	0	30	41.7165893
Scale Factor	0.999940039		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 171 AND STATE HIGHWAY 290, NORTHWEST OF MALVERN, GO SOUTH ON HIGHWAY 171 2.95 MILES TO THE MARK ON THE LEFT, NORTH 20.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND IN LINE WITH THE CENTERLINE EXTENEDED NORTH OF HILLTOP ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "300014 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE WITH GUY	38	8.08	26.5
MK # 2	FIRE HYDRANT	53	0.97	3.2
MK # 3				

AZ Mark Station	300014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300015	12/14/2020	ARDOT	HOT SPRING	84	06X174

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)

Northing (M)	590,104.2008	0.0030
Easting (M)	321,452.5390	0.0030
Elevation (M)*		

Northing (SFT)	1,936,033.5321	
Easting (SFT)	1,054,632.2050	
Elevation (SFT)*		

Convergence Angle	0	28	40.8811173
Scale Factor	0.999936361		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	22	39.7283664
Longitude	92	51	14.7002904
Ellipsoid Height (M):	59.860		0.0130
Geoid Height (M):	-26.540		0.0130

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 AND STATE HIGHWAY 171, WEST OF ROCKPORT, GO WEST ON STATE HIGHWAY 84 0.7 MILES TO THE MARK ON THE RIGHT, NORTHWEST 32,7' OF THE C/L OF THE HIGHWAY AND 35.4' NORTHEAST OF A DIRT TRAIL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "300015 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIBER OPTIC MKR	172	24.05	78.9
MK # 2	AHTD SEWER MKR	164	21.43	70.3
MK # 3				

AZ Mark Station	300015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300015A	12/14/2020	ARDOT	HOT SPRING	84	06X174

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	589,698.9295	0.0030
Easting (M)	321,156.9593	0.0030
Elevation (M)*		
Northing (SFT)	1,934,703.9045	
Easting (SFT)	1,053,662.4573	
Elevation (SFT)*		

Convergence Angle	0	28	47.2822605	
Scale Factor	0.999935980			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	22	26.4954792	
Longitude	92	51	26.1372204	
Ellipsoid Height (M):	56.415			0.0130
Geoid Height (M):	-26.547			0.0130

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 84 AND STATE HIGHWAY 171, WEST OF ROCKPORT, GO WEST ON STATE HIGHWAY 84 1 MILE TO THE MARK ON THE LEFT, SOUTHEAST 15.5' OF THE C/L OF THE HIGHWAY AND 5.2' NORTHWEST OF A FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "300015A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	42	26.12	85.7
MK # 2	BRACE POST	206	13.23	43.4
MK # 3				

AZ Mark Station	300015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300016	6/24/2021	ARDOT	Hot Springs	283	061741

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	573,214.4997	0.0020
Easting (M)	307,811.6004	0.0020
Elevation (M)*		

Northing (SFT)	1,880,621.2378	
Easting (SFT)	1,009,878.5590	
Elevation (SFT)*		

Convergence Angle	0	33	36.1034257
Scale Factor	0.999923942		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	13	27.5711628
Longitude	93	0	2.1743316
Ellipsoid Height (M):	63.383	0.0100	
Geoid Height (M):	-26.761	0.0100	

Location Description

FROM THE INTERSECTION OF US HWY. 67 AND STATE HWY. 283 IN FRIENDSHIP, GO EAST ON US HWY. 67 FOR 0.1 MILES TO THE STATION ON THE LEFT. THE POINT IS 25.7 FT. NORTH OF US HWY. 67. 20.6 FT. SOUTH OF A CHAINLINK FENCE. 75 FT. EAST OF THE CENTERLINE OF PARK STREET.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE PEDESTAL	262	16.55	54.3
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARGS, ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
300016A	6/24/2021	ARDOT	Hot Springs	283	061741

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	573,380.4517	0.0030
Easting (M)	308,181.2018	0.0030
Elevation (M)*		
Northing (SFT)	1,881,165.6986	
Easting (SFT)	1,011,091.1596	
Elevation (SFT)*		

Convergence Angle	0	33	28.0563137	
Scale Factor	0.999924030			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	13	33.0741300	
Longitude	92	59	47.7965472	
Ellipsoid Height (M):	55.127			0.0100
Geoid Height (M):	-26.755			0.0100

Location Description

FROM THE INTERSECTION OF US HWY. 67 AND STATE HWY. 283 IN FRIENDSHIP, GO EAST ON US HWY. 67 FOR 0.35 MILES TO THE STATION ON THE RIGHT. THE POINT IS 24.2 FT. SOUTH OF THE CENTERLINE OF US HWY. 67. 33.5 FT. WEST OF THE CENTERLINE OF A DRIVEWAY. 47.6 FT. NORTHEAST OF THE EAST END OF A HEADWALL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	224	23.50	77.1
MK # 2	TELEPHONE PEDESTAL	73	22.37	73.4
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARGS, ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310001	4/2/1996	AHTD	HEMPSTEAD	73	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	522,578.3261
Easting (M)	228,213.0940
Elevation (M)*	116.176
Northing (SFT)	1,714,492.3915
Easting (SFT)	748,729.1259
Elevation (SFT)*	381.154

Convergence Angle	-1	2	16.5212804
Scale Factor			0.999930055
Elevation Adjust. Factor			0.9999817685
Combined Adjust. Factor			0.9999118248

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	45	28.1552832
Longitude	93	51	16.0469100
Ellipsoid Height (M):	88.526		
Geoid Height (M):	-27.650		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO SOUTHWESTERLY ON HWY-73 FOR 3.77 KM. (2.35 MI.) TO THE STATION ON THE LEFT. 11.20 METERS SOUTHEAST OF THE CENTER OF HWY-73 AND 1.30 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310001 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	232	31.30	102.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	310001A
Geodetic Azimuth	56 55 02.13456
Grid Azimuth	57 57 18.61782

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310001A	4/2/1996	AHTD	HEMPSTEAD	73	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	522,888.6661
Easting (M)	228,708.8780
Elevation (M)*	120.485
Northing (SFT)	1,715,510.5654
Easting (SFT)	750,355.7106
Elevation (SFT)*	395.291

Convergence Angle	-1	2	5.8617955
Scale Factor			0.999929815
Elevation Adjust. Factor			0.9999810923
Combined Adjust. Factor			0.9999109087

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	45	38.5179444
Longitude	93	50	57.0015960
Ellipsoid Height (M):	92.835		
Geoid Height (M):	-27.650		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF COLUMBUS ABOUT 25KM. NORTHWEST OF HOPE, GO SOUTHWESTERLY ON HWY-73 FOR 3.21 KM. (2.00 MI.) TO THE STATION ON THE LEFT. 11.75 METERS SOUTHEAST OF THE CENTER OF HWY-73, 3.0 METERS NORTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 1.50 METERS NORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310001A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER AND GATE POST	159	1.75	5.7
MK # 2	FENCE CORNER AND GATE POST	215	5.55	18.2
MK # 3	NONE			

AZ Mark Station	310001
Geodetic Azimuth	236 55 12.71812
Grid Azimuth	237 57 18.61782

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310002	4/2/1996	AHTD	HEMPSTEAD	355	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	522,525.6411	
Easting (M)	223,666.9920	
Elevation (M)*	116.352	
Northing (SFT)	1,714,319.5408	
Easting (SFT)	733,814.1229	
Elevation (SFT)*	381.732	

Convergence Angle	-1	3	55.3593280
Scale Factor			0.999930158
Elevation Adjust. Factor			0.9999817409
Combined Adjust. Factor			0.9999119002

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	45	23.7372012
Longitude	93	54	12.6409644
Ellipsoid Height (M):	88.682		
Geoid Height (M):	-27.670		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN SARATOGA GO WEST ON HWY-355 FOR 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH HWY-32, TURN RIGHT ON HWY-355 AND GO NORTH FOR 0.48 KM. (0.30 MI.) TO THE STATION ON THE RIGHT. 9.10 METERS EAST OF THE CENTER OF HWY-355 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310002 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	168	25.82	84.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	SARATOGA AZ.
Geodetic Azimuth	187 08 03.90185
Grid Azimuth	188 11 59.26586

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088 ELEVATION ON THIS STATION WAS ARRIVED AT USING SARATOGA AZ.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310003	8/22/2001	AHTD	HOWARD	355	030239

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	540,556.2721
Easting (M)	220,850.5540
Elevation (M)*	
Northing (SFT)	1,773,475.0360
Easting (SFT)	724,573.8592
Elevation (SFT)*	

Convergence Angle	-1	5	4.0261955
Scale Factor			0.999920500
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	55	7.1652036
Longitude	93	56	15.3281364
Ellipsoid Height (M):	101.571		
Geoid Height (M):	-27.173		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 355, LOCATED ABOUT 8.049 KM (5.0 MI) WEST OF NASHVILLE, GO SOUTH ON STATE HIGHWAY 355 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 37.50 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 355 AND 0.97 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "310003 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.996 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	340	33.00	108.3
MK # 2				
MK # 3				

AZ Mark Station	310003A
Geodetic Azimuth	166 05 54
Grid Azimuth	167 10 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	660015
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310003A	8/22/2001	AHTD	HOWARD	355	030239

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	540,022.9560
Easting (M)	220,971.8880
Elevation (M)*	
Northing (SFT)	1,771,725.3148
Easting (SFT)	724,971.9359
Elevation (SFT)*	
Convergence Angle	-1 5 1.1629290
Scale Factor	0.999920671
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	54	49.9323600
Longitude	93	56	10.2123348
Ellipsoid Height (M):	101.083		
Geoid Height (M):	-27.164		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 355, LOCATED ABOUT 8.049 KM (5.0 MI) WEST OF NASHVILLE, GO SOUTH ON STATE HIGHWAY 355 FOR 4.34 KM (2.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 355 AND 3.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "310003A 2001" SET ON TOP OF AN IRON ROD 0.60 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.996 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	310003
Geodetic Azimuth	346 05 57
Grid Azimuth	347 10 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	660015
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310004	7/28/2003	AHTD	HOWARD	369	030285

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	554,285.8570
Easting (M)	227,241.3850
Elevation (M)*	
Northing (SFT)	1,818,519.5158
Easting (SFT)	745,541.1106
Elevation (SFT)*	
Convergence Angle	-1 2 50.2570001
Scale Factor	0.999918482
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	2	36.5795952
Longitude	93	52	16.3225596
Ellipsoid Height (M):	181.259		
Geoid Height (M):	-27.307		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 369 AND STATE HIGHWAY 26, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, WEST OF MURFEESBORO AND EAST OF CENTER POINT, GO NORTH ON STATE HIGHWAY 369 FOR 0.29 MILES TO THE STATION ON THE LEFT, 11.5 METERS WEST OF THE CENTERLINE AND 0.70 METERS EAST OF A WITNESS POST AND SOUTH 4.40 METERS OF A GRAVEL FIELD ROAD. THE STATION IS A STANDARD 64mm CAP STAMPED "310004 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN POST FOR SOUTH END OF GAP G ATE	340	2.30	7.5
MK # 2				
MK # 3				

AZ Mark Station	310004A
Geodetic Azimuth	178 13 07
Grid Azimuth	179 15 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	DQUA C.O.R.S.
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	AHTD ARTX C.O.R.S.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310004A	7/28/2003	AHTD	HOWARD	369	030285

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	553,682.2110	
Easting (M)	227,249.1200	
Elevation (M)*		
Northing (SFT)	1,816,539.0539	
Easting (SFT)	745,566.4879	
Elevation (SFT)*		

Convergence Angle	-1	2	49.8474805
Scale Factor	0.999918472		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	2	16.9945836	
Longitude	93	52	15.5908704	
Ellipsoid Height (M):	176.866			
Geoid Height (M):	-27.296			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 369 AND STATE HIGHWAY 26, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, WEST OF MURFEESBORO AND EAST OF CENTER POINT, GO SOUTH ON MT. PLEASANT DR FOR 0.05 MILES TO THE STATION ON THE LEFT EAST 9.30 METERS OF THE CENTER LINE AND WEST 0.50 METERS OF A WITNESS POST. THE STATIONIS A STANDARD 64mm CAP STAMPED "310004A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAIL BOX 494	355	20.30	66.6
MK # 2				
MK # 3				

AZ Mark Station	310004
Geodetic Azimuth	358 13 07
Grid Azimuth	359 15 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	DQUA C.O.R.S.
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	AHTD ARTX C.O.R.S.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310005	7/28/2003	AHTD	HOWARD	26	030285

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	553,649.8360	
Easting (M)	229,922.6920	
Elevation (M)*		
Northing (SFT)	1,816,432.8369	
Easting (SFT)	754,338.0320	
Elevation (SFT)*		

Convergence Angle	-1	1	51.5035694
Scale Factor			0.999918472
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	2	17.5175952
Longitude	93	50	31.3477368
Ellipsoid Height (M):	178.508		
Geoid Height (M):	-27.267		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 26 AND 369, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, EAST OF MURFEESBORO, AND WEST OF CENTER POINT, GO EAST ON HIGHWAY 26 1.7 MILES TO CORNITH ROAD AND TURN RIGHT (SOUTH) AND GO 0.25 MILES TO THE STATION ON THE RIGHT. WEST 9.5 METERS OF THE CENTER LINE AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310005 2003" ON TOP OF A 0.80 METER IRON ROD DRIVEN FUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	310005A
Geodetic Azimuth	174 40 39
Grid Azimuth	175 42 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	DQUA C.O.R.S.
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	AHTD ARTX C.O.R.S.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310005A	7/28/2003	AHTD	HOWARD	26	030285

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	553,151.9470	
Easting (M)	229,960.0550	
Elevation (M)*		
Northing (SFT)	1,814,799.3461	
Easting (SFT)	754,460.6138	
Elevation (SFT)*		

Convergence Angle	-1	1	50.4929608
Scale Factor			0.999918470
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	2	1.3817544	
Longitude	93	50	29.5420812	
Ellipsoid Height (M):	175.083			
Geoid Height (M):	-27.258			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 26 AND 369, AT THE SOUTHWEST CORNER OF MT. PLEASANT CEMETERY, EAST OF MURFEESBORO, AND WEST OF CENTER POINT, GO EAST ON HIGHWAY 26 1.7 MILES TO CORNITH ROAD AND TURN RIGHT (SOUTH) AND GO 0.55 MILES TO THE STATION ON THE RIGHT. WEST 8.4 METERS OF THE CENTER LINE AND EAST 0.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310005A 2003" ON TOP OF A 0.80 METER IRON ROD DRIVEN FUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	77	18.10	59.4
MK # 2	COMBINATION POLE	120	23.60	77.4
MK # 3				

AZ Mark Station	310005
Geodetic Azimuth	354 40 40
Grid Azimuth	355 42 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	DQUA C.O.R.S.
Ref Mon # 2	AHTD HOPE C.O.R.S.
Ref Mon # 3	AHTD ARTX C.O.R.S.

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310006	7/13/2004	AHTD	HOWARD	278	R30050

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	543,504.3131
Easting (M)	229,660.4310
Elevation (M)*	114.703
Northing (SFT)	1,783,147.0672
Easting (SFT)	753,477.5974
Elevation (SFT)*	376.322

Convergence Angle	-1	1	53.2402303
Scale Factor			0.999919635
Elevation Adjust. Factor			0.9999819997
Combined Adjust. Factor			0.9999016361

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	56	48.1163748
Longitude	93	50	34.4506308
Ellipsoid Height (M):	87.475		
Geoid Height (M):	-27.127		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278,ì 371, AND 27, IN NASHVILLE. GO SOUTH ON HIGHWAY 278 FOR 0.10 ìMILES TO A PAVED ROAD ON THE RIGHT AND TURN RIGHT AND GO 78.3 ìMETERS TO THE STATION ON THE RIGHT , 7.0 METERS NORTH OF THE ìCENTERLINE OF THE HIGHWAY AND SOUTH 3.30 METERS OF A WITNESS ìPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "310006 ì2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE ìGROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	310006A
Geodetic Azimuth	12 33 10
Grid Azimuth	13 35 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE
Ref Mon # 2	LROC
Ref Mon # 3	DQUA

Comments

3-Wire elevations were ran from NGS B 61 in Job # R30050

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310006A	7/13/2004	AHTD	HOWARD	27N	R30050

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	544,137.8991
Easting (M)	229,813.5270
Elevation (M)*	125.084
Northing (SFT)	1,785,225.7573
Easting (SFT)	753,979.8798
Elevation (SFT)*	410.378

Convergence Angle	-1	1	50.1520098
Scale Factor			0.999919488
Elevation Adjust. Factor			0.9999803707
Combined Adjust. Factor			0.9998998603

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	57	8.7673968	
Longitude	93	50	28.9329036	
Ellipsoid Height (M):	97.829			
Geoid Height (M):	-27.133			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY i278/371/27, IN NASHVILLE, GO NORTH ON HIGHWAY 27 0.25 MILES TO iTHE STATION ON THE LEFT, NORTHWEST 12.0 METERS OF THE CENTERLINEi OF THE HIGHWAY AND NORTHWEST 1.08 METERS OF A WITNESS POST. THEi STATION MARK IS A STANDARD 64mm CAP STAMPED "310006A 2004" ON iTOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	8	18.60	61.0
MK # 2	SIGN "CHAMBERS PRINT CO."	202	16.50	54.1
MK # 3	WATER METER	195	12.90	42.3

AZ Mark Station	310006
Geodetic Azimuth	192 33 13
Grid Azimuth	193 35 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE
Ref Mon # 2	LROC
Ref Mon # 3	DQUA

Comments

3-Wire elevations were ran from NGS B 61 in Job # R30050

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310007	2/1/2017	AHTD	HOWARD	278	030457

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	573,435.4218	0.0020
Easting (M)	211,022.1767	0.0020
Elevation (M)*		
Northing (SFT)	1,881,346.0464	
Easting (SFT)	692,328.5914	
Elevation (SFT)*		

Convergence Angle	-1	8	52.5038260
Scale Factor	0.999923325		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	12	47.9198664	
Longitude	94	3	3.5493840	
Ellipsoid Height (M):	162.524			0.0090
Geoid Height (M):	-28.031			0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278W AND STATE HIGHWAY 70, NORTH OF DIERKS, GO WEST ON 278 FOR 5.05 MILES TO THE MARK ON THE LEFT, EAST 32.6' OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 32' OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 310007" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	226	8.23	27.0
MK # 2	CORNER OF 4' CONCRETE RETAINING WAL r	351	19.66	64.5
MK # 3	SOUTH END OF 24" CMP	129	4.11	13.5

AZ Mark Station	310007A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	OKHV, TXCR

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
310007A	2/1/2017	AHTD	HOWARD	278	030457

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	572,849.7425	0.0020
Easting (M)	211,043.5258	0.0020
Elevation (M)*		
Northing (SFT)	1,879,424.5302	
Easting (SFT)	692,398.6342	
Elevation (SFT)*		

Convergence Angle	-1	8	51.7805785
Scale Factor	0.999923043		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	34	12	28.9284588
Longitude	94	3	2.2571568
Ellipsoid Height (M):	151.661	0.0090	
Geoid Height (M):	-28.014	0.0090	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 278W AND STATE HIGHWAY 70, NORTH OF DIERKS, GO WEST ON 278 FOR 4.7 MILES TO THE MARK ON THE LEFT, EAST 17.5' OF THE CENTERLINE OF THE HIGHWAY, NORTH 24' OF A FIELD ROAD AND 96' SOUTH OF THE CENTER OF A HEADWALL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 310007A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A 36" RCP	247	7.62	25.0
MK # 2	POWER POLE WITH GUY	290	11.28	37.0
MK # 3				

AZ Mark Station	310007
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	OKHV, TXCR

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINING ORTHOMETRIC HTS. ON AHTD CORS SITES ARCM, ARHP & ARLR IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320001	5/22/1990	AHTD	NDEPENDENCI	25	5933

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	151,550.5170
Easting (M)	421,643.2660
Elevation (M)*	
Northing (SFT)	497,211.9879
Easting (SFT)	1,383,341.2819
Elevation (SFT)*	

Convergence Angle	0	8	20.9890148
Scale Factor			0.999937938
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	41	56.8777740
Longitude	91	45	39.0449124
Ellipsoid Height (M):			
Geoid Height (M):	-27.379		

Location Description

THE STATION IS 37.5 FEET EAST OF THE CENTERLINE OF HWY. 25, 18 FEET SOUTH OF THE CENTERLINE OF A PRIVATE DRIVE AND 1.8 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 14" PINE	79	14.46	47.4
MK # 2	NBC IN 14" PINE	112	14.31	46.9
MK # 3	NBC IN COMBINATION POLE	200	5.87	19.3

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMOND
Ref Mon # 2	BATESVILLE
Ref Mon # 3	SALADO

Comments

DO NOT USE DATA FOR THIS STATION. Old point number 90320001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320002	5/22/1990	AHTD	NDEPENDENCI	25	5933

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	151,664.6619	
Easting (M)	421,676.4500	
Elevation (M)*		
Northing (SFT)	497,586.4783	
Easting (SFT)	1,383,450.1530	
Elevation (SFT)*		

Convergence Angle	0	8	21.7635681
Scale Factor			0.999937974
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	42	0.5789268	
Longitude	91	45	37.7138340	
Ellipsoid Height (M):				
Geoid Height (M):	-28.315			

Location Description

THE STATION IS 36 FEET EAST OF HWY. 25 AT THE EDGE OF OVERLOOK, 20 FEET SOUTHEAST OF A WALKING TRAIL AND 1.5 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 12" PINE	97	12.56	41.2
MK # 2	NBC IN 14" PINE	128	15.65	51.3
MK # 3	NBC IN 14" PINE	158	25.27	82.9

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMOND
Ref Mon # 2	BATESVILLE
Ref Mon # 3	SALADO

Comments

DO NOT USE DATA FOR THIS STATION. Old point number 90320002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320003	5/22/1990	AHTD	NDEPENDENCI	25	5933,050313

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	153,933.7340	0.0020
Easting (M)	423,583.3808	0.0020
Elevation (M)*	96.671	
Northing (SFT)	505,030.9256	
Easting (SFT)	1,389,706.4752	
Elevation (SFT)*	317.161	

Convergence Angle	0	9	6.0437961
Scale Factor			0.999938756
Elevation Adjust. Factor			0.9999848294
Combined Adjust. Factor			0.9999235863

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	43	14.4583968
Longitude	91	44	20.2708572
Ellipsoid Height:			68.289
Grid Northing (Meters)			153,946.4610
Grid Easting (Meters)			423,617.1980

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD12A			
Latitude	35	43	14.0483424	
Longitude	91	44	21.6177792	
Ellipsoid Height (M):			69.169	0.0260
Geoid Height (M):			-27.498	

Location Description

THE STATION IS 31 FEET SOUTH OF HWY. 25 AND 310 FEET WEST OF THE JCT. OF HWY. 230 AND HWY. 25 NEAR THE WEST ENTRANCE OF CIRCLE DRIVE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	43	16.87	55.4
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMOND
Ref Mon # 2	BATESVILLE
Ref Mon # 3	SALADO

Comments

ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320004	5/22/1990	AHTD	NDEPENDENCI	25	5933,050313

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	153,919.9791	0.0030
Easting (M)	423,190.9098	0.0030
Elevation (M)*	104.110	
Northing (SFT)	504,985.7981	
Easting (SFT)	1,388,418.8432	
Elevation (SFT)*	341.569	

Convergence Angle	0	8	56.9558302
Scale Factor			0.999938751
Elevation Adjust. Factor			0.9999836620
Combined Adjust. Factor			0.9999224140

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	43	14.0457936
Longitude	91	44	35.8932228
Ellipsoid Height:			75.729
Grid Northing (Meters)			153,932.7129
Grid Easting (Meters)			423,224.6120

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD12A			
Latitude	35	43	13.6354584	
Longitude	91	44	37.2355476	
Ellipsoid Height (M):			76.597	0.0260
Geoid Height (M):			-27.496	

Location Description

TURN LEFT JUST WEST OF BRIDGE AT LOG MILE 4.18 ONTO PRIVATE ROAD, THE STATION IS 0.1 MILES FROM HWY. 25, 8.5 FEET NORTH OF A GUY WIRE ANCHOR, 21 FEET EAST OF THE PRIVATE ROAD, 72 FEET WEST OF THE SPILLWAY OF A LARGE POND AND 0.2 FEET WEST OF WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	129	5.69	18.7
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMOND
Ref Mon # 2	BATESVILLE
Ref Mon # 3	SALADO

Comments

ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320006	11/28/1994	AHTD	NDEPENDENCI	69	R50017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	153,407.2660	
Easting (M)	446,076.9020	
Elevation (M)*	86.332	
Northing (SFT)	503,303.6719	
Easting (SFT)	1,463,503.9693	
Elevation (SFT)*	283.241	

Convergence Angle	0	17	46.7831862
Scale Factor			0.999938531
Elevation Adjust. Factor			0.9999864519
Combined Adjust. Factor			0.9999249837

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	42	54.1121688
Longitude	91	29	26.7214560
Ellipsoid Height (M):	57.984		
Geoid Height (M):	-28.348		

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MAGNESS, GO NORTH ON HWY. 69 FOR 1.802 KM (1.12 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.3 METERS WEST OF THE CENTER OF HWY. 69, 19.0 METERS NORTH OF THE CENTER OF LINDSAY ROAD, 9.70 METERS EAST OF THE EASTERN MOST RAIL OF THE EASTERN MOST TRACK AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" METAL DRAIN PIPE	305	10.60	34.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	320006A
Geodetic Azimuth	355 56 09.56012
Grid Azimuth	355 38 22.7754

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT 1990
Ref Mon # 2	BATEPORT 1990
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320006A	11/28/1994	AHTD	NDEPENDENCI	69	R50017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	153,977.9850	
Easting (M)	446,033.3850	
Elevation (M)*	87.506	
Northing (SFT)	505,176.1058	
Easting (SFT)	1,463,361.1973	
Elevation (SFT)*	287.093	

Convergence Angle	0	17	45.8439661
Scale Factor	0.999938740		
Elevation Adjust. Factor	0.9999862676		
Combined Adjust. Factor	0.9999250085		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	43	12.6378732
Longitude	91	29	28.3355160
Ellipsoid Height (M):	59.155		
Geoid Height (M):	-28.351		

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MAGNESS, GO NORTH ON HWY. 69 FOR 2.365 KM (1.47 MILES) TO THE STATION ON THE LEFT. THE STATION IS 15.5 METERS WEST OF THE CENTER OF HWY. 69, 13.4 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY AND RAILROAD CROSSING, 7.5 METERS EAST OF THE EASTERN MOST RAIL OF THE RAILROAD TRACK AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2" GAS LINE MARKER POST	135	11.50	37.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	320006
Geodetic Azimuth	175 56 08.6178
Grid Azimuth	175 38 22.7754

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT NOAA
Ref Mon # 2	BATEPORT NOAA
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320007	11/28/1994	AHTD	NDEPENDENCI	69	R50017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	156,841.1960	
Easting (M)	444,930.8020	
Elevation (M)*	93.790	
Northing (SFT)	514,569.8239	
Easting (SFT)	1,459,743.8062	
Elevation (SFT)*	307.709	

Convergence Angle	0	17	20.6499728
Scale Factor	0.999939908		
Elevation Adjust. Factor	0.9999852815		
Combined Adjust. Factor	0.9999251904		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	44	45.7243296
Longitude	91	30	11.6316684
Ellipsoid Height (M):	65.423		
Geoid Height (M):	-28.367		

Location Description

FROM THE POST OFFICE IN SULPHUR ROCK, GO SOUTH ON HWY. 69 SPUR FOR 0.805 KM (0.50 MILES) TO THE JCT. WITH HWY. 69, TURN RIGHT AND NORTH ON HWY. 69 AND GO 0.289 KM (0.18 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.6 METERS NORTH OF THE CENTER OF HWY. 69, 20.15 METERS NORTHWEST OF AN AHTD RIGHT-OF-WAY MARKER AND 0.71 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320007 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	4" FENCE BRACE POST	117	18.00	59.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	320007A
Geodetic Azimuth	300 45 29.87669
Grid Azimuth	300 28 09.20908

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT 1990
Ref Mon # 2	BATEPORT 1990
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320007A	11/28/1994	AHTD	NDEPENDENCI	69	R50017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	157,068.3159	
Easting (M)	444,544.7540	
Elevation (M)*	97.725	
Northing (SFT)	515,314.9664	
Easting (SFT)	1,458,477.2471	
Elevation (SFT)*	320.619	

Convergence Angle	0	17	11.7351117
Scale Factor	0.999940010		
Elevation Adjust. Factor	0.9999846640		
Combined Adjust. Factor	0.9999246749		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	44	53.1566916
Longitude	91	30	26.9519544
Ellipsoid Height (M):	69.357		
Geoid Height (M):	-28.368		

Location Description

FROM THE POST OFFICE IN SULPHUR ROCK, GO SOUTH ON HWY. 69 FOR 0.805 KM (0.50 MILES) TO THE JCT. WITH HWY. 69, TURN RIGHT AND NORTH ON HWY. 69 AND GO 0.72 KM (0.45 MILES) TO THE STATION ON THE LEFT. THE STATION IS 14.3 METERS SOUTHEAST OF THE CENTER OF HWY. 69 AND 0.93 METERS NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "320007A 1994" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	4" FENCE BRACE POST	310	21.70	71.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	320007
Geodetic Azimuth	120 45 20.92647
Grid Azimuth	120 28 09.20908

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT 1990
Ref Mon # 2	BATEPORT 1990
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320008A	4/16/1998	AHTD	NDEPENDENCI	122	R50064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,692.0830	
Easting (M)	450,336.8290	
Elevation (M)*	72.339	
Northing (SFT)	491,114.7756	
Easting (SFT)	1,477,480.0798	
Elevation (SFT)*	237.332	

Convergence Angle	0	19	24.9222187
Scale Factor			0.999937366
Elevation Adjust. Factor			0.9999886478
Combined Adjust. Factor			0.9999260145

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	40	52.8156588
Longitude	91	26	38.0684580
Ellipsoid Height (M):	44.975		
Geoid Height (M):	-27.383		

Location Description

THE STATION IS LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF NEWARK AT THE JUNCTION OF STATE HIGHWAY 122 AND STATE HIGHWAY 69. THE STATION IS 74.114 METERS NORTH OF THE CENTER OF STATE HIGHWAY 69, 11.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 122 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	175	10.00	32.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	320008
Geodetic Azimuth	182 53 29.00663
Grid Azimuth	182 34 04.08382

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320009	6/11/1997	AHTD	NDEPENDENCI	69B	R50090

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	159,790.3770	
Easting (M)	431,025.4190	
Elevation (M)*	82.798	
Northing (SFT)	524,245.5952	
Easting (SFT)	1,414,122.5622	
Elevation (SFT)*	271.646	

Convergence Angle	0	11	58.8262609
Scale Factor	0.999941352		
Elevation Adjust. Factor	0.9999870065		
Combined Adjust. Factor	0.9999283592		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	23.3418576
Longitude	91	39	24.6892284
Ellipsoid Height (M):	54.433		
Geoid Height (M):	-28.365		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO SOUTHEAST ON STATE HIGHWAY 69B FOR 0.41 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.05 METERS NORTHWEST OF THE CENTER OF CHARLES STREET, 5.80 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 69B AND 1.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320009 1997" SET ON TOP OF AN IRON ROD 0.91 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	139	7.70	25.3
MK # 2	SOUTHWEST CORNER OF FUNERAL HOME	40	26.80	87.9
MK # 3				

AZ Mark Station	320009A
Geodetic Azimuth	323 40 47.8702
Grid Azimuth	323 28 49.02816

Area Reference Monuments (used for Processing)

Ref Mon # 1	BATEPORT
Ref Mon # 2	J 165
Ref Mon # 3	ALMOND

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320009A	6/11/1997	AHTD	NDEPENDENCI	69B	R50090

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	160,189.3939	
Easting (M)	430,729.9490	
Elevation (M)*	94.646	
Northing (SFT)	525,554.7032	
Easting (SFT)	1,413,153.1743	
Elevation (SFT)*	310.518	

Convergence Angle	0	11	52.0124981
Scale Factor	0.999941561		
Elevation Adjust. Factor	0.9999851472		
Combined Adjust. Factor	0.9999267090		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	36.3221472
Longitude	91	39	36.3987540
Ellipsoid Height (M):	66.280		
Geoid Height (M):	-28.366		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO NORTHWEST ON STATE HIGHWAY 69B FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.50 METERS SOUTHEAST OF THE CENTER OF BAKER STREET, 5.25 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 69B AND 1.73 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320009A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	U. S. POSTAL MAIL BOX	310	8.50	27.9
MK # 2	LIGHT POLE	146	16.00	52.5
MK # 3				

AZ Mark Station	320009
Geodetic Azimuth	143 40 41.02477
Grid Azimuth	143 28 49.02816

Area Reference Monuments (used for Processing)

Ref Mon # 1	BATEPORT
Ref Mon # 2	J 165
Ref Mon # 3	ALMOND

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320010	6/11/1997	AHTD	NDEPENDENCI	106	R50090

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	159,958.1540	
Easting (M)	426,931.2500	
Elevation (M)*	105.940	
Northing (SFT)	524,796.0436	
Easting (SFT)	1,400,690.2760	
Elevation (SFT)*	347.571	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	46	29.2181988	
Longitude	91	42	7.6817376	
Ellipsoid Height (M):	77.580			
Geoid Height (M):	-28.360			

Convergence Angle	0	10	23.9810619
Scale Factor	0.999941446		
Elevation Adjust. Factor	0.9999833748		
Combined Adjust. Factor	0.9999248218		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69B AND STATE HIGHWAY 106, LOCATED ON THE WEST SIDE OF BATESVILLE, GO WESTERLY ON STATE HIGHWAY 106 FOR 4.10 KM (2.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.30 METERS NORTH OF THE CENTER OF MILL DAM ROAD, 6.67 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 106 AND 0.68 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320010 1997" SET ON TOP OF AN IRON 0.92 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	0.70 METER PECAN TREE	106	32.40	106.3
MK # 2	WOODEN CORNER POST	195	35.37	116.0
MK # 3				

AZ Mark Station	320010A
Geodetic Azimuth	91 37 48.42752
Grid Azimuth	91 27 24.46652

Area Reference Monuments (used for Processing)

Ref Mon # 1	BATEPORT
Ref Mon # 2	J 165
Ref Mon # 3	ALMOND

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING USC&GS BENCH MARK "Y 41" ELEVATION = 99.133 METERS. STATION P.I.D. = FF1639

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320016	12/22/1998	AHTD	NDEPENDENCI	69	R50064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	145,264.4730	
Easting (M)	460,729.0990	
Elevation (M)*	69.742	
Northing (SFT)	476,588.5252	
Easting (SFT)	1,511,575.3856	
Elevation (SFT)*	228.812	

Convergence Angle	0	23	24.7211563
Scale Factor	0.999936422		
Elevation Adjust. Factor	0.9999890553		
Combined Adjust. Factor	0.9999254780		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	38	27.0495348
Longitude	91	19	45.9713676
Ellipsoid Height (M):	42.372		
Geoid Height (M):	-27.410		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 122 AND STATE HIGHWAY 69, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF NEWARK, GO EAST ON STATE HIGHWAY 69 FOR 13.05 KM (8.11 KM) TO THE WEST END OF A BRIDGE OVER THE BLACK RIVER AND THE STATION ON THE RIGHT. THE STATION IS 7.20 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 69 AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "320016 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH MARK IN TOP OF GUARD RAIL POST	270	3.30	10.8
MK # 2	PUNCH MARK IN TOP OF GUARD RAIL POST	291	1.72	5.6
MK # 3	PUNCH MARK IN TOP OF GUARD RAIL POST	65	2.96	9.7

AZ Mark Station	320016A
Geodetic Azimuth	273 05 09.94370
Grid Azimuth	272 41 45.21273

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320017	3/11/1999	AHTD	NDEPENDENCI	167	5962, 005963

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	135,966.9660	
Easting (M)	433,855.9580	
Elevation (M)*	186.952	
Northing (SFT)	446,084.9543	
Easting (SFT)	1,423,409.0889	
Elevation (SFT)*	613.358	

Convergence Angle	0	13	2.3128078
Scale Factor			0.999936037
Elevation Adjust. Factor			0.9999706620
Combined Adjust. Factor			0.9999067009

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	33	29.9847168
Longitude	91	37	35.5869048
Ellipsoid Height (M):	159.743		
Geoid Height (M):	-27.209		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAYS 87 AND 157, LOCATED IN PLEASANT PLAINS, GO NORTH ON U.S. HIGHWAY 167 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.51 METERS NORTH OF THE CENTER OF A CONCRETE ENTRANCE TO A CONVENIENCE STORE, 14.86 METERS SOUTH OF THE CENTER OF A GRAVEL ENTRANCE TO CONVENIENCE STORE, 11.89 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.60 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm ALUMINUM CAP STAMPED (ARKANSAS LAND SERVICE RLS 1282 320017) SET ON TOP OF A 150mm ROUND CONCRETE MONUMENT SET FLUSH WITH THE GROUND.

NGVD 29 ELEVATION = 186.882 METERS

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF CMP	13	10.17	33.4
MK # 2	NORTH END OF CMP	167	9.59	31.5
MK # 3				

AZ Mark Station	320017A
Geodetic Azimuth	17 36 17.831553
Grid Azimuth	17 23 15.517931

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	320011

Comments

ELEVATION BY THREE WIRE LEVELING USING TBM-901 ON JOB 5962 ESTABLISHED BY CREW S5101. THE ORIGNAL ELEVATION USED WAS NGVD29 DATUM BUT THE ELEVATION ON THIS DATAFORM IS NAVD88 AND WAS ARRIVED AT USING THE VERTCON CONVERSION PROGRAM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320017A	3/11/1999	AHTD	NDEPENDENCI	167	5962

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	136,338.9080	
Easting (M)	433,972.4290	
Elevation (M)*	194.106	
Northing (SFT)	447,305.2340	
Easting (SFT)	1,423,791.2108	
Elevation (SFT)*	636.829	

Convergence Angle	0	13	5.0367975
Scale Factor			0.999936012
Elevation Adjust. Factor			0.9999695394
Combined Adjust. Factor			0.9999055533

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	33	42.0393672
Longitude	91	37	30.9056988
Ellipsoid Height (M):	166.895		
Geoid Height (M):	-27.211		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAYS 87 AND 157, LOCATED IN PLEASTANT PLAINS, GO NORTH ON U.S. HIGHWAY 167 FOR 0.47 KM (0.29 MI) TO THE STATION ON THE LEFT SET IN FRONT OF A CHURCH. THE STATION IS 10.45 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 10.15 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED (320017A 1999) SET ON TOP OF AN IRON ROD 0.85 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF CMP	36	6.50	21.3
MK # 2	NORTH END OF CMP	183	4.33	14.2
MK # 3				

AZ Mark Station	320017
Geodetic Azimuth	197 36 20.55394
Grid Azimuth	197 23 15.51793

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	320011

Comments

PT HAS BEEN DISTURBED. THE CAP HAS BEEN KNOCKED OFF AS PER MSK 12 JAN 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320018	3/19/1999	AHTD	NDEPENDENCI	167	050070,050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	169,997.0610	
Easting (M)	440,370.3850	
Elevation (M)*	197.138	
Northing (SFT)	557,732.0243	
Easting (SFT)	1,444,781.8381	
Elevation (SFT)*	646.777	

Convergence Angle	0	15	36.4102139
Scale Factor	0.999947887		
Elevation Adjust. Factor	0.9999690636		
Combined Adjust. Factor	0.9999169522		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	53.3009268
Longitude	91	33	10.7688312
Ellipsoid Height (M):	169.501		
Geoid Height (M):	-27.634		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 8.30 KM (5.16 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.313 METERS NORTH OF THE CENTER OF HILLY VILLAGE ROAD, 14.276 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "320018 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	33	18.77	61.6
MK # 2	GAS REGULATOR STATION	59	10.94	35.9
MK # 3	TELEPHONE JUNCTION BOX	195	24.93	81.8

AZ Mark Station	320018
Geodetic Azimuth	23 27 30.808749
Grid Azimuth	23 11 54.418696

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point Q 165

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320018A	3/19/1999	AHTD	NDEPENDENCI	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	170,580.6680	
Easting (M)	440,620.5000	
Elevation (M)*	192.742	
Northing (SFT)	559,646.7416	
Easting (SFT)	1,445,602.4238	
Elevation (SFT)*	632.354	

Convergence Angle	0	15	42.2735094
Scale Factor	0.999948339		
Elevation Adjust. Factor	0.9999697534		
Combined Adjust. Factor	0.9999180940		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	52	12.1999620
Longitude	91	33	0.6926940
Ellipsoid Height (M):	165.093		
Geoid Height (M):	-27.643		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 7.68 KM (4.77 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320018A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	UNDER GROUND CABLE WARRING SIGN	197	27.00	88.6
MK # 2	GATE POST	28	17.06	56.0
MK # 3	NONE			

AZ Mark Station	320018
Geodetic Azimuth	203 27 36.71249
Grid Azimuth	203 11 54.41870

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point Q 165

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320019	3/19/1999	AHTD	NDEPENDENCI	167	050070,050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	175,931.4540	
Easting (M)	440,652.6620	
Elevation (M)*	176.980	
Northing (SFT)	577,201.7787	
Easting (SFT)	1,445,707.9419	
Elevation (SFT)*	580.642	

Convergence Angle	0	15	43.5873701
Scale Factor	0.999952881		
Elevation Adjust. Factor	0.9999722268		
Combined Adjust. Factor	0.9999251091		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	5.8081584
Longitude	91	32	58.4348100
Ellipsoid Height (M):	149.281		
Geoid Height (M):	-27.711		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 2.19 KM (1.36 MI) TO THE STATION ON THE LEFT. THE STATION IS 66.537 METERS SOUTH OF A PAVED ENTRANCE TO A GAS STATION, 16.394 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320019 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END CMP	345	56.78	186.3
MK # 2	COMBINATION POLE	14	38.30	125.6
MK # 3	NONE			

AZ Mark Station	V 165
Geodetic Azimuth	354 48 37.09086
Grid Azimuth	354 32 53.49659

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point U 165

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320020	6/29/2000	AHTD	NDEPENDENCI	106	R50109

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,542.1708	
Easting (M)	422,022.4382	
Elevation (M)*	153.876	
Northing (SFT)	546,397.1054	
Easting (SFT)	1,384,585.2827	
Elevation (SFT)*	504.841	

Convergence Angle	0	8	30.6249689
Scale Factor	0.999945424		
Elevation Adjust. Factor	0.9999758524		
Combined Adjust. Factor	0.9999212778		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	3.2891244
Longitude	91	45	22.4854200
Ellipsoid Height (M):	126.193		
Geoid Height (M):	-27.547		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 106 AND STATE HIGHWAY 69, LOCATED ABOUT 16.09 KM (10.00 MI) NORTH OF BATESVILLE, GO WEST ON STATE HIGHWAY 106 FOR 2.57 KM (1.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTHEAST OF THE CENTER OF A PASTURE ENTRANCE, 10.75 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 106 AND 1.30 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320020 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.713 METERS

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	236	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	320021
Geodetic Azimuth	225 57 30.82380
Grid Azimuth	225 49 00.17862

Area Reference Monuments (used for Processing)

Ref Mon # 1	BATEPORT
Ref Mon # 2	330001
Ref Mon # 3	V 165

Comments

ELEVATION BASED ON AHTD BM 320021. ALSO BM 901 (LM 11.37 E HW) = 502.978 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320020A	6/29/2000	AHTD	NDEPENDENCI	106	R50109

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,263.6081	
Easting (M)	421,735.8186	
Elevation (M)*	161.212	
Northing (SFT)	545,483.1876	
Easting (SFT)	1,383,644.9315	
Elevation (SFT)*	528.909	

Convergence Angle	0	8	23.9634862
Scale Factor			0.999945235
Elevation Adjust. Factor			0.9999747013
Combined Adjust. Factor			0.9999199376

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	54.2734752
Longitude	91	45	33.9332508
Ellipsoid Height (M):	133.535		
Geoid Height (M):	-27.545		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 106 AND STATE HIGHWAY 69, LOCATED ABOUT 16.09 KM (10.00 MI) NORTH OF BATESVILLE, GO WEST ON STATE HIGHWAY 106 FOR 3.06 KM (1.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.35 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 106 AND 1.00 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320020A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.713 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	320020
Geodetic Azimuth	45 57 24.121960
Grid Azimuth	45 49 00.178617

Area Reference Monuments (used for Processing)

Ref Mon # 1	BATEPORT
Ref Mon # 2	330001
Ref Mon # 3	V 165

Comments

ALSO BM 902 (LM 11.08 N HW) = 493.19000 FEET. ALSO BM 903 (N HEADWALL) = 490.503 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320021	8/14/2001	AHTD	NDEPENDENCI	167	050095,050313,C32005

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	158,437.0582	0.0030
Easting (M)	432,435.6702	0.0030
Elevation (M)*	82.600	
Northing (SFT)	519,805.5818	
Easting (SFT)	1,418,749.3613	
Elevation (SFT)*	270.998	

Convergence Angle	0	12	31.3857907
Scale Factor			0.999940672
Elevation Adjust. Factor			0.9999870375
Combined Adjust. Factor			0.9999277102

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	45	39.2667912
Longitude	91	38	28.7362860
Ellipsoid Height:			54.959
Grid Northing (Meters)			158,437.0480
Grid Easting (Meters)			432,435.6460

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD12A			
Latitude	35	45	39.2671188	
Longitude	91	38	28.7353212	
Ellipsoid Height (M):			55.025	0.0270
Geoid Height (M):			-27.588	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE GO SOUTH ON U.S. HIGHWAY 167 FOR 0.966 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.90 METERS WEST OF THE CENTER OF U. S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320021 2001" SET ON TOP OF AN IRON ROD O.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS POINT IS ON THE NORTH END OF THE WHITE RIVER BRIDGE. THE SHOT DISTANCE IS 531. 287 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POST	153	9.40	30.8
MK # 2	PUNCH MARK IN METAL GUARD RAIL POST	31	3.60	11.8
MK # 3	PUNCH MARK IN METAL GUARD RAIL POST	86	6.75	22.1

AZ Mark Station	320021A
Geodetic Azimuth	177 35 36
Grid Azimuth	177 23 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 165
Ref Mon # 2	NEWSPORT
Ref Mon # 3	BATEPORT

Comments

Elevation determined by digital levels from NGS BM C 334 by crew s5102 during job 050302 in September 2013

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320021A	8/14/2001	AHTD	NDEPENDENCI	167	050095,050313,C32005

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	157,906.3638	0.0030
Easting (M)	432,459.9066	0.0030
Elevation (M)*		
Northing (SFT)	518,064.4619	
Easting (SFT)	1,418,828.8769	
Elevation (SFT)*		

Convergence Angle	0	12	31.9024172
Scale Factor	0.999940419		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE				
Elevation Datum:	NONE				
Geoid Datum:	GEIOD12A				
Latitude	35	45	22.0445820		
Longitude	91	38	27.8474928		
Ellipsoid Height (M):	54.053			0.0270	
Geoid Height (M):	-27.582				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE GO SOUTH ON U. S. HIGHWAY 167 FOR 1.497 KM (0.93 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS WEST OF THE CENTER OF U. S. HIGHWAY 167 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320021A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION IS ON THE SOUTH END OF THE WHITE RIVER BRIDGE. THE SHOT DISTANCE IS 531.287 METERS.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	45	22.0442976
Longitude	91	38	27.8481912
Ellipsoid Height:	54.002		
Grid Northing (Meters)	157,906.3550		
Grid Easting (Meters)	432,459.8890		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POST	20	3.10	10.2
MK # 2	PUNCH MARK IN METAL GUARD RAIL POST	85	1.60	5.2
MK # 3	PUNCH MARK IN METAL GUARD RAIL POST	155	6.05	19.8

AZ Mark Station	320021
Geodetic Azimuth	357 35 36
Grid Azimuth	357 23 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 165
Ref Mon # 2	NEWSPORT
Ref Mon # 3	BATEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320022	8/14/2001	AHTD	NDEPENDENCI	69	050095

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	159,497.0680	
Easting (M)	435,369.7710	
Elevation (M)*		
Northing (SFT)	523,283.2973	
Easting (SFT)	1,428,375.6570	
Elevation (SFT)*		

Convergence Angle	0	13	39.4523255
Scale Factor			0.999941193
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	46	13.2991248
Longitude	91	36	31.7622384
Ellipsoid Height (M):	67.048		
Geoid Height (M):	-27.548		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE, GO EAST ON STATE HIGHWAY 69 FOR 3.428 KM (2.13 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 69, 9.00 METERS SOUTHWEST OF THE CENTER OF A CONCRETE DRIVE, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320022 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.338 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	20	24.70	81.0
MK # 2	CORNER STARS AND STRIPES GYM BUILDI NG	294	29.80	97.8
MK # 3				

AZ Mark Station	320022A
Geodetic Azimuth	218 08 18
Grid Azimuth	217 54 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 165
Ref Mon # 2	NEWSPORT
Ref Mon # 3	BATEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320022A	8/14/2001	AHTD	NDEPENDENCI	69	050095

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	159,081.8319	
Easting (M)	435,046.3950	
Elevation (M)*		
Northing (SFT)	521,920.9768	
Easting (SFT)	1,427,314.7143	
Elevation (SFT)*		

Convergence Angle	0	13	31.9225099
Scale Factor			0.999940984
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	45	59.8673196
Longitude	91	36	44.7023088
Ellipsoid Height (M):	79.331		
Geoid Height (M):	-27.542		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 167 (ST. LOUIS STREET) AND STATE HIGHWAY 69 (HARRISON STREET) LOCATED IN BATESVILLE GO EAST ON STATE HIGHWAY 69 FOR 2.897 KM (1.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 69 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320022A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.338 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	210	31.40	103.0
MK # 2	CONCRETE RIGHT OF WAY MARKER	27	27.55	90.4
MK # 3				

AZ Mark Station	320022
Geodetic Azimuth	38 08 10
Grid Azimuth	37 54 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 165
Ref Mon # 2	NEWSPORT
Ref Mon # 3	BATEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320023	3/29/2002	AHTD	NDEPENDENCI	167	050000,050186

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	160,444.3519	
Easting (M)	432,508.6700	
Elevation (M)*	111.377	
Northing (SFT)	526,391.1779	
Easting (SFT)	1,418,988.8615	
Elevation (SFT)*	365.408	

Convergence Angle	0	12	33.2466573
Scale Factor	0.999941692		
Elevation Adjust. Factor	0.9999825217		
Combined Adjust. Factor	0.9999242147		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	44.3898516
Longitude	91	38	25.5374016
Ellipsoid Height (M):	83.894		
Geoid Height (M):	-27.512		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.00 MILE TO THE STATION ON THE LEFT. THE STATION IS 22.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 5.40 METERS WEST OF THE CENTER OF AN ASHPHALT DRIVE, AND 13.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320023 2002" SET ON TOP OF AN IRON ROD 0.92 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	3	13.55	44.5
MK # 2	CONCRETE RIGHT OF WAY MARKER	325	25.75	84.5
MK # 3				

AZ Mark Station	BATESVILLE
Geodetic Azimuth	186 37 14
Grid Azimuth	186 24 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	NEWSPORT
Ref Mon # 3	BATEPORT

Comments

3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320024	3/29/2002	AHTD	NDEPENDENCI	167	050000,050186,050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	163,503.9130	
Easting (M)	434,759.4980	
Elevation (M)*	119.092	
Northing (SFT)	536,429.0879	
Easting (SFT)	1,426,373.4530	
Elevation (SFT)*	390.720	

Convergence Angle	0	13	25.6761714
Scale Factor	0.999943434		
Elevation Adjust. Factor	0.9999813110		
Combined Adjust. Factor	0.9999247460		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	23.3879652
Longitude	91	36	55.4367096
Ellipsoid Height (M):	91.560		
Geoid Height (M):	-27.551		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO NORTH ON U.S. HIGHWAY 167 FOR 1.59 MILES TO THE STATION ON THE LEFT. THE STATION IS LOCATED ON THE HILL IN ROSELAWN MEMORIAL GARDENS. THE STATION IS 7.50 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE IN THE CEMETERY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320024 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	260	14.40	47.2
MK # 2	JOHNA J. DUNCAN GRAVE MARKER	325	16.80	55.1
MK # 3				

AZ Mark Station	320024A
Geodetic Azimuth	236 38 51
Grid Azimuth	236 25 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	NEWSPORT
Ref Mon # 3	BATEPORT

Comments

3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320024A	3/29/2002	AHTD	NDEPENDENCI	167	050000,050186

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	163,220.5489	
Easting (M)	434,332.6200	
Elevation (M)*	111.907	
Northing (SFT)	535,499.4175	
Easting (SFT)	1,424,972.9375	
Elevation (SFT)*	367.149	

Convergence Angle	0	13	15.7565009
Scale Factor			0.999943263
Elevation Adjust. Factor			0.9999824384
Combined Adjust. Factor			0.9999257024

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	14.2474032
Longitude	91	37	12.4837716
Ellipsoid Height (M):	84.387		
Geoid Height (M):	-27.548		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO NORTH ON U.S. HIGHWAY 167 FOR 1.28 MILES TO THE STATION ON THE RIGHT. THE STATION IS 18.55 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 167, 17.60 METERS EAST OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320024A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORRIGATED METAL PIPE	260	15.00	49.2
MK # 2	GATE POST	215	12.90	42.3
MK # 3				

AZ Mark Station	320024
Geodetic Azimuth	56 38 41
Grid Azimuth	56 25 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	NEWSPORT
Ref Mon # 3	BATEPORT

Comments

3-Wire Levels ran by Crew S5103 in Sept 2002 from NGS marks J 165 and Batesville.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320025	12/16/2002	AHTD	NDEPENDENCI	25	050136

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	161,844.9889	
Easting (M)	434,485.8080	
Elevation (M)*	90.358	
Northing (SFT)	530,986.4344	
Easting (SFT)	1,425,475.5217	
Elevation (SFT)*	296.450	

Convergence Angle	0	13	19.1835053
Scale Factor	0.999942459		
Elevation Adjust. Factor	0.9999858201		
Combined Adjust. Factor	0.9999282799		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	29.5952208
Longitude	91	37	6.5944272
Ellipsoid Height (M):	62.810		
Geoid Height (M):	-27.532		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 233, GO EAST ON STATE HIGHWAY 25 FOR 0.10 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.1 METERS NORTH OF THE CENTER OF STATE HIGHWAY 25 AND 0.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320025 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	74	20.90	68.6
MK # 2	MANHOLE COVER	44	9.20	30.2
MK # 3				

AZ Mark Station	320025A
Geodetic Azimuth	93 10 35
Grid Azimuth	92 57 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	AHTD PAR1
Ref Mon # 3	RUSSPORT

Comments

ELEVATION BY 3 WIRE BY NTB FROM NGS POINT F 165

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320025A	12/16/2002	AHTD	NDEPENDENCI	25	050136

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	161,808.6159	
Easting (M)	435,190.5760	
Elevation (M)*	92.236	
Northing (SFT)	530,867.1007	
Easting (SFT)	1,427,787.7481	
Elevation (SFT)*	302.611	

Convergence Angle	0	13	35.5124884
Scale Factor	0.999942437		
Elevation Adjust. Factor	0.9999855254		
Combined Adjust. Factor	0.9999279632		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	28.3255116
Longitude	91	36	38.5328916
Ellipsoid Height (M):	64.688		
Geoid Height (M):	-27.533		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 25 AND STATE HIGHWAY 233, GO EAST ON STATE HIGHWAY 25 FOR 0.60 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.6 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 25 AND 0.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "320025A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	85	41.40	135.8
MK # 2	REINFORCED CONCRETE PIPE	340	26.50	86.9
MK # 3				

AZ Mark Station	320025
Geodetic Azimuth	273 10 51
Grid Azimuth	272 57 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	AHTD PAR1
Ref Mon # 3	RUSSPORT

Comments

ELEVATION BY 3 WIRE BY NTB FROM NGS POINT F 165

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320026	6/27/2005	AHTD	NDEPENDENCI	167	005963

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	136,044.9320	
Easting (M)	434,313.0930	
Elevation (M)*		
Northing (SFT)	446,340.7477	
Easting (SFT)	1,424,908.8726	
Elevation (SFT)*		

Convergence Angle	0	13	12.8826906
Scale Factor	0.999936032		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	33	32.4579672
Longitude	91	37	17.4224460
Ellipsoid Height (M):	164.268		
Geoid Height (M):	-27.208		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAYS 87 AND 157, LOCATED IN PLEASTANT PLAINS, GO NORTH ON U.S. HIGHWAY 167 FOR 0.1 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 25.6 METERS EAST OF THE CENTERLINE OF THE HIGHWAY AND 1.05 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "320026 2005" SET ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE
GROUND.

HARN

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	3	15.30	50.2
MK # 2	TELEPHONE RISER	175	14.20	46.6
MK # 3				

AZ Mark Station	320017
Geodetic Azimuth	260 30 05
Grid Azimuth	260 16 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT, NEWSPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	BUTLER

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320027	6/27/2005	AHTD	NDEPENDENCI	167	005963

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	142,593.5680	
Easting (M)	435,773.1380	
Elevation (M)*		
Northing (SFT)	467,825.7310	
Easting (SFT)	1,429,699.0369	
Elevation (SFT)*		

Convergence Angle	0	13	47.2268957
Scale Factor	0.999936108		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	37	4.7651160	
Longitude	91	36	18.4015548	
Ellipsoid Height (M):	64.877			
Geoid Height (M):	-27.268			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 4.50 MILES TO THE STATION MARK ON THE RIGHT, 39.80 METERS NORTH OF A FIELD ENTRANCE, EAST 19.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 2.40 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320027 2005" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	150	4.50	14.8
MK # 2	WOOD FENCE POST	172	7.10	23.3
MK # 3	GUY WIRE	132	7.05	23.1

AZ Mark Station	320027A
Geodetic Azimuth	195 57 14
Grid Azimuth	195 43 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT, NEWSPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	BUTLER

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320027A	6/27/2005	AHTD	NDEPENDENCI	167	005963

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	142,088.8970	
Easting (M)	435,631.0530	
Elevation (M)*		
Northing (SFT)	466,169.9896	
Easting (SFT)	1,429,232.8797	
Elevation (SFT)*		

Convergence Angle	0	13	43.8947078
Scale Factor	0.999936065		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	36	48.4078500
Longitude	91	36	24.1279560
Ellipsoid Height (M):	64.511		
Geoid Height (M):	-27.258		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 4.10 MILES TO THE STATION MARK ON THE LEFT, 10.0 METERS SOUTH OF A THE SOUTHERN MOST ENTRANCE TO ROAD SIDE PARK, WEST 24.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320027A 2005" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF RCP	131	6.20	20.3
MK # 2	NORTH END OF GUARDRAIL	128	12.30	40.4
MK # 3	SOUTHEAST END OF RCP	293	15.30	50.2

AZ Mark Station	320027
Geodetic Azimuth	15 57 10
Grid Azimuth	15 43 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT, NEWSPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	BUTLER

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320028	6/28/2005	AHTD	NDEPENDENCI	167	005963

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	147,027.3480	
Easting (M)	435,719.0070	
Elevation (M)*	83.503	
Northing (SFT)	482,372.2242	
Easting (SFT)	1,429,521.4421	
Elevation (SFT)*	273.959	

Convergence Angle	0	13	46.3859402
Scale Factor	0.999936760		
Elevation Adjust. Factor	0.9999868958		
Combined Adjust. Factor	0.9999236567		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	39	28.6402392
Longitude	91	36	19.8467460
Ellipsoid Height (M):	56.173		
Geoid Height (M):	-27.329		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 7.3 MILES TO THE STATION MARK ON THE LEFT, 17.70 METERS WEST OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320028 2005" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF HEADWALL	311	0.50	1.6
MK # 2	NORTHWEST CORNER OF HEADWALL	13	12.10	39.7
MK # 3				

AZ Mark Station	320012A
Geodetic Azimuth	14 33 46
Grid Azimuth	14 20 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT, NEWSPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	BUTLER

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320029	6/28/2005	AHTD	NDEPENDENCI	167	005963

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,842.1740	
Easting (M)	434,756.0260	
Elevation (M)*		
Northing (SFT)	491,607.1992	
Easting (SFT)	1,426,362.0620	
Elevation (SFT)*		

Convergence Angle	0	13	24.3608401
Scale Factor	0.999937426		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	41	0.0991968
Longitude	91	36	57.6971208
Ellipsoid Height (M):	63.910		
Geoid Height (M):	-27.362		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 9.4 MILES TO THE STATION MARK ON THE RIGHT, 35.10 METERS SOUTH OF A DRIVEWAY, EAST 19.20 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320029 2005" ON TOP OF A 0.75 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	189	8.10	26.6
MK # 2	COMBINATION POLE W/LIGHT	5	31.00	101.7
MK # 3	NORTHEAST CORNER WINGWALL	185	23.25	76.3

AZ Mark Station	320029
Geodetic Azimuth	175 52 02
Grid Azimuth	175 38 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT, NEWSPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	BUTLER

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320029A	6/28/2005	AHTD	NDEPENDENCI	167	005963

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,051.7349	
Easting (M)	434,816.2380	
Elevation (M)*		
Northing (SFT)	489,013.9003	
Easting (SFT)	1,426,559.6075	
Elevation (SFT)*		

Convergence Angle	0	13	25.6828602
Scale Factor	0.999937219		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	40	34.4434548	
Longitude	91	36	55.4252148	
Ellipsoid Height (M):	60.987			
Geoid Height (M):	-27.353			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGWAY 157, IN PLEASANT PLAINS, GO NORTH ON 167 8.9 MILES TO THE STATION MARK ON THE LEFT, 32.40 METERS SOUTH OF KYLER ROAD, WEST 19.50 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 METER CAP STAMPED "320029A 3 2005" ON TOP OF A 0.75 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF RCP	340	22.25	73.0
MK # 2	TELEPHONE RISER	332	19.80	65.0
MK # 3	COMBINATION POLE	163	24.10	79.1

AZ Mark Station	320029
Geodetic Azimuth	355 52 04
Grid Azimuth	355 38 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT, NEWSPORT
Ref Mon # 2	BATEPORT
Ref Mon # 3	BUTLER

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320030	8/9/2010	AHTD	Independence	167	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	165,416.6769	
Easting (M)	436,723.5580	
Elevation (M)*	124.272	
Northing (SFT)	542,704.5475	
Easting (SFT)	1,432,817.2065	
Elevation (SFT)*	407.717	

Convergence Angle	0	14	11.3828073
Scale Factor	0.999944638		
Elevation Adjust. Factor	0.9999804980		
Combined Adjust. Factor	0.9999251371		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	25.1953788
Longitude	91	35	36.8893572
Ellipsoid Height (M):	96.698		
Geoid Height (M):	-27.574		

Location Description

To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 1.30 miles to the station on the left. 43.0 feet west of the center of hwy-167 and 11.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "320030 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"American vetrans' sign	286	3.65	12.0
MK # 2	North end of a 24 inch culvert	170	8.53	28.0
MK # 3	Fire hydrant	0	21.65	71.0

AZ Mark Station	320030A
Geodetic Azimuth	199 17 19
Grid Azimuth	199 03 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320030A	8/9/2010	AHTD	Independence	167	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	164,949.1069	
Easting (M)	436,562.0860	
Elevation (M)*	124.433	
Northing (SFT)	541,170.5282	
Easting (SFT)	1,432,287.4438	
Elevation (SFT)*	408.245	

Convergence Angle	0	14	7.5948101
Scale Factor	0.999944334		
Elevation Adjust. Factor	0.9999804727		
Combined Adjust. Factor	0.9999248078		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	10.0457544
Longitude	91	35	43.3990716
Ellipsoid Height (M):	96.866		
Geoid Height (M):	-27.569		

Location Description

To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 1.0 miles to the station on the right. 53.0 feet east of the center of hwy-167 and 4.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320030A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	199	13.11	43.0
MK # 2	Fence corner	99	1.37	4.5
MK # 3	Southwest corner of a church	75	13.72	45.0

AZ Mark Station	320030
Geodetic Azimuth	19 17 15
Grid Azimuth	19 03 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320031	8/9/2010	AHTD	Independence	167	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	168,700.6449
Easting (M)	438,664.2300
Elevation (M)*	158.627
Northing (SFT)	553,478.6991
Easting (SFT)	1,439,184.2279
Elevation (SFT)*	520.428

Convergence Angle	0	14	56.7049212
Scale Factor			0.999946917
Elevation Adjust. Factor			0.9999751069
Combined Adjust. Factor			0.9999220252

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	11.4826716
Longitude	91	34	19.0028100
Ellipsoid Height (M):	131.016		
Geoid Height (M):	-27.611		

Location Description

To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 3.70 miles to the station on the right. 40.0 feet east of the center of hwy-167, 50.0 feet south of a gravel drive, 19.0 feet northwest of a mailbox, 19.0 feet west of a web wire fence and 19.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320031 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	southwest corner of a metal building	127	7.32	24.0
MK # 2	Fence corner at driveway	65	14.02	46.0
MK # 3				

AZ Mark Station	320031A
Geodetic Azimuth	220 21 04
Grid Azimuth	220 06 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320031A	8/9/2010	AHTD	Independence	167	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	168,294.9699	
Easting (M)	438,322.5950	
Elevation (M)*	149.497	
Northing (SFT)	552,147.7471	
Easting (SFT)	1,438,063.3804	
Elevation (SFT)*	490.476	

Convergence Angle	0	14	48.7412459
Scale Factor			0.999946622
Elevation Adjust. Factor			0.9999765396
Combined Adjust. Factor			0.9999231628

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	58.3678536
Longitude	91	34	32.6884728
Ellipsoid Height (M):	121.896		
Geoid Height (M):	-27.608		

Location Description

To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 3.40 miles to the station on the right. 35.0 feet east of the center of hwy-167 and 44.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320031A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	36 inch Cedar tree	44	14.95	49.0
MK # 2				
MK # 3				

AZ Mark Station	320031
Geodetic Azimuth	40 20 56
Grid Azimuth	40 06 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320032	8/16/2010	AHTD	Independence	167	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	170,504.1729
Easting (M)	440,556.0900
Elevation (M)*	192.923
Northing (SFT)	559,395.7739
Easting (SFT)	1,445,391.1053
Elevation (SFT)*	632.948

Convergence Angle	0	15	40.7713186
Scale Factor			0.999948279
Elevation Adjust. Factor			0.9999697250
Combined Adjust. Factor			0.9999180056

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	52	9.7275072
Longitude	91	33	3.2742252
Ellipsoid Height (M):	165.276		
Geoid Height (M):	-27.641		

Location Description

To reach the station from the junction of highways 167 and 394 north of Batesville go north on hwy-167 for 5.40 miles to the station on the left at the driveway to "Tom's auto body and used cars". 46.0 feet west of the center of hwy-167, 136 feet north of a gravel drive and 14.10 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "320032 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	283	4.40	14.4
MK # 2				
MK # 3				

AZ Mark Station	320018
Geodetic Azimuth	200 22 18
Grid Azimuth	200 06 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320033	8/16/2010	AHTD	Independence	167	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	172,537.0119	
Easting (M)	440,462.5540	
Elevation (M)*	220.233	
Northing (SFT)	566,065.1799	
Easting (SFT)	1,445,084.2292	
Elevation (SFT)*	722.549	

Convergence Angle	0	15	38.8162388
Scale Factor	0.999949918		
Elevation Adjust. Factor	0.9999654394		
Combined Adjust. Factor	0.9999153591		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	15.6996204
Longitude	91	33	6.6340512
Ellipsoid Height (M):	192.556		
Geoid Height (M):	-27.666		

Location Description

To reach the station from the Independence and Sharp county lines in Cave City go south on hwy-167 for 3.70 miles to the station on the left. 101 feet north of the center of a gravel drive and 3.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "320033 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	25	14.33	47.0
MK # 2	Gas valve	40	15.85	52.0
MK # 3	Telephone box	160	25.90	85.0

AZ Mark Station	320033A
Geodetic Azimuth	15 35 43
Grid Azimuth	15 20 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320033A	8/16/2010	AHTD	Independence	NA	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	173,235.6659	
Easting (M)	440,654.1350	
Elevation (M)*	221.048	
Northing (SFT)	568,357.3472	
Easting (SFT)	1,445,712.7746	
Elevation (SFT)*	725.223	

Convergence Angle	0	15	43.3353948
Scale Factor	0.999950504		
Elevation Adjust. Factor	0.9999653115		
Combined Adjust. Factor	0.9999158172		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	38.3399880
Longitude	91	32	58.8678324
Ellipsoid Height (M):	193.356		
Geoid Height (M):	-27.677		

Location Description

To reach the station from the Independence and Sharp county lines in Cave City go south on hwy-167 for 3.20 miles to " Sunset Ridge road" on the left. Turnleft and go east on Sunset ridge road for 0.40 miles to the top of the hill and the station on the right near a pipe gate. 30.0 feet south of Sunset ridge road, 10.70 feet northwest of the center of a gate and 2.70 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "320033A 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	297	9.14	30.0
MK # 2	Power pole	67	19.81	65.0
MK # 3				

AZ Mark Station	320033
Geodetic Azimuth	195 35 47
Grid Azimuth	195 20 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320034	10/21/2014	AHTD	NDEPENDENCI	25	050313

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,232.9342	0.0020
Easting (M)	426,858.2926	0.0020
Elevation (M)*	81.843	0.0020
Northing (SFT)	512,574.2183	
Easting (SFT)	1,400,450.9150	
Elevation (SFT)*	268.512	

Convergence Angle	0	10	22.0304063
Scale Factor	0.999939675		
Elevation Adjust. Factor	0.9999871564		
Combined Adjust. Factor	0.9999268322		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD12A		
Latitude	35	44	28.3512516
Longitude	91	42	11.0339604
Ellipsoid Height (M):	54.312		0.0250
Geoid Height (M):	-27.549		

Location Description

TO REACH FROM THE JUNCTION OF HIGHWAY 230 AND HIGHWAY 25 IN LOCUST GROVE. GO NORTH ON HIGHWAY 25 FOR 2.5 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 2 FT. NORTH OF A WITNESS POST, 30 FT. SOUTH OF THE CENTERLINE OF HIGHWAY 25, AND 16 FT. WEST OF A GRAVEL FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320034 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24 IN. CORRUGATED METAL PIPE	35	2.00	6.6
MK # 2	COMBINATION POLE	249	2.50	8.2
MK # 3				

AZ Mark Station	320034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	P777
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG

Comments

ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320034A	10/21/2014	AHTD	NDEPENDENCI	25	050313

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,930.6885	0.0020
Easting (M)	426,887.7780	0.0020
Elevation (M)*	81.822	0.0022
Northing (SFT)	514,863.4339	
Easting (SFT)	1,400,547.6517	
Elevation (SFT)*	268.444	

Convergence Angle	0	10	22.7620658
Scale Factor	0.999939980		
Elevation Adjust. Factor	0.9999871596		
Combined Adjust. Factor	0.9999271404		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD12A		
Latitude	35	44	50.9888184
Longitude	91	42	9.7765956
Ellipsoid Height (M):	54.278		0.0250
Geoid Height (M):	-27.560		

Location Description

TO REACH FROM THE JUNCTION OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 2.5 MILES TO GREENBRIER FARM RD. TURN NORTH / LEFT ON GREENBRIER FARM RD. GO FOR 0.4 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 39.5 FT. EAST OF THE CENTER OF GREENBRIER FARM RD., AND SET IN THE MIDDLE OF A FARM ROAD. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320034A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 1 FT. BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	320034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	P777
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG

Comments

ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320035	10/21/2014	AHTD	NDEPENDENCI	25	050313

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	155,192.4416	0.0020
Easting (M)	430,513.0577	0.0020
Elevation (M)*	121.567	0.0017
Northing (SFT)	509,160.5355	
Easting (SFT)	1,412,441.5901	
Elevation (SFT)*	398.840	

Convergence Angle	0	11	46.5905513
Scale Factor	0.999939236		
Elevation Adjust. Factor	0.9999809226		
Combined Adjust. Factor	0.9999201597		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD12A			
Latitude	35	43	54.2077860	
Longitude	91	39	45.7164288	
Ellipsoid Height (M):	94.035			0.0250
Geoid Height (M):	-27.534			

Location Description

TO REACH FROM THE JCT. OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 4.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 2.5 FT. SOUTH OF A WITNESS POST, AND 32 FT. NORTH OF THE CENTERLINE OF HWY. 25. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320035 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	104	46.30	151.9
MK # 2	METAL SIGN POST (FUN TIME RV SALES)	290	27.90	91.5
MK # 3				

AZ Mark Station	320035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	P777
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG

Comments

ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320035A	10/21/2014	AHTD	NDEPENDENCI	25	050313

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	155,304.0853	0.0020
Easting (M)	429,928.0851	0.0020
Elevation (M)*	110.443	0.0020
Northing (SFT)	509,526.8199	
Easting (SFT)	1,410,522.3925	
Elevation (SFT)*	362.345	

Convergence Angle	0	11	33.0531373
Scale Factor	0.999939282		
Elevation Adjust. Factor	0.9999826682		
Combined Adjust. Factor	0.9999219512		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD12A			
Latitude	35	43	57.8947620	
Longitude	91	40	8.9806224	
Ellipsoid Height (M):	82.900			0.0250
Geoid Height (M):	-27.536			

Location Description

TO REACH FROM THE JCT. OF HWY. 230 AND HWY. 25 IN LOCUST GROVE. GO NORTH ON HWY. 25 FOR 4.6 MILES TO THE STATION ON THE RIGHT. THE STATION MARK IS 2 FT. SOUTH OF A WITNESS POST, 41 FT. SOUTH OF THE CENTERLINE OF HWY. 25, AND 126 FT. EAST OF THE CENTERLINE OF FRED ST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "320035A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	294	30.20	99.1
MK # 2	COMBINATION POLE	73	6.30	20.7
MK # 3	NORTHEAST CORNER OF FRONT PORCH	201	15.00	49.2

AZ Mark Station	320035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	P777
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG

Comments

ELEV WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM N 42 AND E 334 DURING JOB 050313 BY CREW S5102 IN NOV. 2014

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320036	3/14/2019	ARDOT	NDEPENDENCI	14	14SLIDE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	155,897.7502	0.0010
Easting (M)	415,119.0385	0.0010
Elevation (M)*		
Northing (SFT)	511,474.5354	
Easting (SFT)	1,361,936.3788	
Elevation (SFT)*		

Convergence Angle	0	5	50.1401727
Scale Factor	0.999939544		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	44	18.3729624	
Longitude	91	49	58.2802932	
Ellipsoid Height (M):	67.537			0.0080
Geoid Height (M):	-27.519			0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25S AND STATE HIGHWAY 14W, IN LOCUST GROVE, GO WEST ON HIGHWAY 14 FOR 5.8 MILES TO THE MARK ON THE RIGHT, 15.5' NORTHWEST OF THE C/L OF THE HIGHWAY AND SOUTHWEST 67' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 320036" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	320036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARM3
Ref Mon # 3	ARHR, P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320036A	3/14/2019	ARDOT	NDEPENDENCI	14	14SLIDE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,175.4624	0.0010
Easting (M)	415,492.4075	0.0010
Elevation (M)*		
Northing (SFT)	512,385.6629	
Easting (SFT)	1,363,161.3403	
Elevation (SFT)*		

Convergence Angle	0	5	58.7981544
Scale Factor	0.999939662		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	44	27.3632748
Longitude	91	49	43.4014572
Ellipsoid Height (M):	79.891	0.0080	
Geoid Height (M):	-27.524	0.0080	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25S AND STATE HIGHWAY 14W, IN LOCUST GROVE, GO WEST ON HIGHWAY 14 FOR 5.5 MILES TO THE MARK ON THE LEFT, 27' SOUTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 320036A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF HDWL	14	6.40	21.0
MK # 2	PP WITH GUY	221	23.50	77.1
MK # 3				

AZ Mark Station	320036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARM3
Ref Mon # 3	ARHR, P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320037	3/14/2019	ARDOT	NDEPENDENCI	14	14SLIDE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,017.4063	0.0010
Easting (M)	417,823.0320	0.0010
Elevation (M)*		

Northing (SFT)	511,867.1072	
Easting (SFT)	1,370,807.7308	
Elevation (SFT)*		

Convergence Angle	0	6	52.7670552
Scale Factor			0.999939592
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	44	22.0932744
Longitude	91	48	10.6553124
Ellipsoid Height (M):	70.358		0.0080
Geoid Height (M):	-27.527		0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25S AND STATE HIGHWAY 14W, IN LOCUST GROVE, GO WEST ON HIGHWAY 14 FOR 4.05 MILES TO THE MARK ON THE RIGHT, 17' NORTHEAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 320037" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PP	313	27.43	90.0
MK # 2	HDWL	300	24.99	82.0
MK # 3				

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARM3
Ref Mon # 3	ARHR, P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320038	7/15/2019	ARDOT	NDEPENDENCI	69	050420

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	159,547.8588	0.0080
Easting (M)	435,665.2080	0.0020
Elevation (M)*		

Northing (SFT)	523,449.9334	
Easting (SFT)	1,429,344.9366	
Elevation (SFT)*		

Convergence Angle	0	13	46.3016963
Scale Factor	0.999941218		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 12B		
Latitude	35	46	14.9089080
Longitude	91	36	19.9915200
Ellipsoid Height (M):	63.252		0.0070
Geoid Height (M):	-27.604		

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 394 IN BATESVILLE, INDEPENDENCE COUNTY ARKANSAS. TRAVEL WEST ALONG HIGHWAY 69, 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 94FT NORTH OF THE CENTERLINE OF HIGHWAY 69 AND 3 FT SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320038, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	90	16.76	55.0
MK # 2	COMBINATION POLE	277	29.26	96.0
MK # 3	CENTER OF CATCH BASIN MANHOLE	220	21.95	72.0

AZ Mark Station	320038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320038A	7/15/2019	ARDOT	NDEPENDENCI	69	050420

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	159,395.9287	0.0070
Easting (M)	436,242.2200	0.0020
Elevation (M)*		

Northing (SFT)	522,951.4761	
Easting (SFT)	1,431,238.0168	
Elevation (SFT)*		

Convergence Angle	0	13	59.6556005
Scale Factor			0.999941140
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 12B		
Latitude	35	46	9.9035760
Longitude	91	35	57.0426900
Ellipsoid Height (M):	72.926		0.0070
Geoid Height (M):	-27.603		

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 394 IN BATESVILLE, INDEPENDENCE COUNTY ARKANSAS. TRAVEL WEST ALONG HIGHWAY 69, 100 FEET TO THE STATION ON THE RIGHT. THE STATION IS 48 FT NORTH OF THE CENTERLINE OF HIGHWAY 69 AND 37 FT SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320038A, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF CATCH BASIN MANHOLE	158	5.79	19.0
MK # 2	COMBINATION POLE	302	42.06	138.0
MK # 3	TRAFFIC SIGNAL POLE	115	22.86	75.0

AZ Mark Station	320038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320039	7/15/2019	ARDOT	NDEPENDENCI	69	050420

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	159,209.0769	
Easting (M)	439,310.4644	0.0020
Elevation (M)*		
Northing (SFT)	522,338.4465	
Easting (SFT)	1,441,304.4153	
Elevation (SFT)*		

Convergence Angle	0	15	10.7203329
Scale Factor			0.999941039
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 12B			
Latitude	35	46	3.4183200	
Longitude	91	33	54.9171720	
Ellipsoid Height (M):	66.183			0.0000
Geoid Height (M):	-27.607			

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 223 IN MORFIELD, INDEPENDENCE COUNTY ARKANSAS. TRAVEL EAST ALONG HIGHWAY 69, 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 39 FT SOUTH OF THE CENTERLINE OF HIGHWAY 69 AND 23 FT NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320039, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF 36" CONCRETE CULVERT	262	9.75	32.0
MK # 2	COMBINATION POLE	205	9.45	31.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320039A	7/15/2019	ARDOT	NDEPENDENCI	69	050420

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	159,229.3306	0.0040
Easting (M)	439,768.1288	0.0020
Elevation (M)*		

Northing (SFT)	522,404.8955	
Easting (SFT)	1,442,805.9359	
Elevation (SFT)*		

Convergence Angle	0	15	21.3251722
Scale Factor			0.999941048
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 12B		
Latitude	35	46	4.0095480
Longitude	91	33	36.6926400
Ellipsoid Height (M):	69.546		0.0040
Geoid Height (M):	-27.607		

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 223 IN MORFIELD, INDEPENDENCE COUNTY ARKANSAS. TRAVEL EAST ALONG HIGHWAY 69, 0.6 MILES TO THE STATION ON THE RIGHT. THE STATION IS 59 FT SOUTH OF THE CENTERLINE OF HIGHWAY 69 AND 10 FT NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2" ALUMINUM CAP STAMPED 320039, 2019 SET ON TOP OF A 4' REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	97	26.21	86.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320040	4/3/2023	ARDOT	NDEPENDENCI	25	050439

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	160,733.7011	0.0020
Easting (M)	438,749.8953	0.0020
Elevation (M)*		
Northing (SFT)	527,340.4844	
Easting (SFT)	1,439,465.2815	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	46	52.9678884	
Longitude	91	34	16.9708116	
Ellipsoid Height (M):	67.120			0.0070
Geoid Height (M):	-27.631			0.0070

Convergence Angle	0	14	57.8873393
Scale Factor	0.999941834		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 167 AND HWY 25 IN BATESVILLE, HEAD EAST ON HWY 25 FOR 3.8 MILES TO MACK ST. HEAD SOUTH/RIGHT ON MACK ST FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 27.7FT W OF THE CL OF MACK ST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "320040 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	JANE AND ANDREW GOODWIN HEADSTON E	118	4.10	13.5
MK # 2	CENTER OF REHOBETH CEMETERY SIGN	87	13.70	44.9
MK # 3	POWERPOLE	156	30.60	100.4

AZ Mark Station	320040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB, ARBT(VERT)
Ref Mon # 2	ARSC
Ref Mon # 3	ARM3

Comments

BATESVILLE CORS USED ONLY FOR VERTICAL CONSTRAINT. GNSS DERIVED ELEV. BASED ON ARBT, ARJB & ARSC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320040A	4/3/2023	ARDOT	NDEPENDENCI	25	050439

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	161,145.7559	0.0020
Easting (M)	438,694.8478	0.0020
Elevation (M)*		
Northing (SFT)	528,692.3675	
Easting (SFT)	1,439,284.6798	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	47	6.3456684	
Longitude	91	34	19.0914600	
Ellipsoid Height (M):	71.450		0.0070	
Geoid Height (M):	-27.636		0.0070	

Convergence Angle	0	14	56.6533358
Scale Factor	0.999942059		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 167 AND HWY 25 IN BATESVILLE, HEAD EAST ON HWY 25 FOR 3.75 MILES TO THE STATION ON THE RIGHT. THE STATION IS 32.4FT S OF THE CL OF HWY 25, AND 3.4FT N OF A FE POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "320040A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	76	31.10	102.0
MK # 2				
MK # 3				

AZ Mark Station	320040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB, ARBT (VERT)
Ref Mon # 2	ARSC
Ref Mon # 3	ARM3

Comments

BATESVILLE CORS USED ONLY FOR VERTICAL CONSTRAINT. GNSS DERIVED ELEV. BASED ON ARBT, ARJB & ARSC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320041	3/26/2024	ARDOT	NDEPENDENCI	233	05X317, 050518

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	158,775.1335	0.0010
Easting (M)	450,719.3923	0.0010
Elevation (M)*		
Northing (SFT)	520,914.7505	
Easting (SFT)	1,478,735.2062	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	45	47.4664392	
Longitude	91	26	20.7962196	
Ellipsoid Height (M):	99.481			0.0030
Geoid Height (M):	-27.671			0.0030

Convergence Angle	0	19	34.9729191
Scale Factor	0.999940795		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the intersection of Hwy. 233 and Hwy. 69B in Newark, go North on Hwy 233 for 4.3 miles to the Junction of Hwy 233 and Walnut Grove Rd. Go Right/East on Walnut Grove Rd. for 0.2 miles to the station on the Right/South. The station is 21.6 ft. South of the centerline of Walnut Grove Rd. and 4.3 ft. North of a sign post. The station mark is a standard 2 1/2 in. aluminium cap stamped "320041 2024" and set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL FENCE POST		1.80	5.9
MK # 2	METAL FENCE POST		2.30	7.5
MK # 3				

AZ Mark Station	320041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARJB, ARLR

Comments

STATIC DERIVED ELEV. 417.1648 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARHR, ARJB & ARLR

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
320041A	3/26/2024	ARDOT	NDEPENDENCI	233	05X317, 050518

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	158,463.9616	0.0010
Easting (M)	450,492.1175	0.0010
Elevation (M)*		
Northing (SFT)	519,893.8473	
Easting (SFT)	1,477,989.5555	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	45	37.4117256	
Longitude	91	26	29.9143716	
Ellipsoid Height (M):	92.093			0.0030
Geoid Height (M):	-27.663			0.0030

Convergence Angle	0	19	29.6670745
Scale Factor	0.999940645		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the intersection of Hwy. 233 and Hwy. 69B in Newark, go North on Hwy 233 for 4.2 miles to the station on the Right/East. The station is 17 ft. East of the centerline of Hwy. 233 and 22.4 ft. West of a sign post. The station mark is a standard 2 1/2 in. aluminium cap stamped "320041A 2024" and set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER POST		9.90	32.5
MK # 2	METAL FENCE POST		7.00	23.0
MK # 3				

AZ Mark Station	320041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARJB, ARLR

Comments

STATIC DERIVED ELEV. OF 392.8978 US FT IS BASED ON CONSTRAINING HTs. ON ARDOT CORS SITES ARBT, ARHR, ARJB & ARLR. ELEV. OF 392.8918 US FT IS BASED ON DIGITAL LEVELS FROM STATIC DERIVED ELEV. ON GPS #320041

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330001	10/27/1999	AHTD	IZARD	69	050053,050178

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	190,763.4259	
Easting (M)	409,258.2640	
Elevation (M)*	192.048	
Northing (SFT)	625,863.0065	
Easting (SFT)	1,342,708.1545	
Elevation (SFT)*	630.076	

Convergence Angle	0	3	35.2538996
Scale Factor			0.999969288
Elevation Adjust. Factor			0.9999698624
Combined Adjust. Factor			0.9999391513

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	9.9031968
Longitude	91	53	50.0838252
Ellipsoid Height (M):	164.191		
Geoid Height (M):	-27.768		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69 AND COLLEGE DRIVE, LOCATED IN MELBOURNE ABOUT 0.64 KM (0.40 MI) EAST OF THE IZARD COUNTY COURT HOUSE, GO NORTH ON COLLEGE DRIVE FOR 0.64 KM (0.40 MI) TO THE NORTH ENTRANCE TO OZARKA COLLEGE AND THE STATION ON THE LEFT. THE STATION IS 25.85 METERS NORTHEAST OF THE CENTER OF COLLEGE DRIVE, 7.90 METERS NORTHWEST OF THE CENTER OF THE ENTRANCE TO OZARKA COLLEGE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330001 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 327.345 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	167	16.93	55.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	330001A
Geodetic Azimuth	352 25 45.96567
Grid Azimuth	352 22 10.70604

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from USGS point 7KW, NGS E17, and NGS H17 via Job 050053, 050178, 050011, & 050012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330001A	10/27/1999	AHTD	IZARD	69	050053,050178

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	191,087.8519	
Easting (M)	409,214.8020	
Elevation (M)*	185.321	
Northing (SFT)	626,927.3941	
Easting (SFT)	1,342,565.5629	
Elevation (SFT)*	608.007	

Convergence Angle	0	3	34.2512478
Scale Factor	0.999969706		
Elevation Adjust. Factor	0.9999709180		
Combined Adjust. Factor	0.9999406248		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	20.4306984
Longitude	91	53	51.8068932
Ellipsoid Height (M):	157.467		
Geoid Height (M):	-27.771		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 69 AND COLLEGE DRIVE, LOCATED IN MELBOURNE ABOUT 0.64 KM (0.40 MI) EAST OF THE IZARD COUNTY COURT HOUSE, GO NORTH ON COLLEGE DRIVE FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF HALEY STREET AND THE STATION ON THE LEFT. THE STATION IS 8.60 METERS EAST OF THE CENTER OF COLLEGE STREET, 7.75 METERS SOUTH OF THE CENTER OF HALEY STREET AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330001A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 327.345 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF A HEADWALL	244	3.00	9.8
MK # 2	TELEPHONE JUNCTION BOX	339	9.23	30.3
MK # 3	CORNER OF A WOODEN FENCE	4	6.95	22.8

AZ Mark Station	330001
Geodetic Azimuth	172 25 44.95154
Grid Azimuth	172 22 10.70604

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from USGS point 7KW, NGS E17, and NGS H17 via Job 050053, 050178, 050011, & 050012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330002	10/11/2005	AHTD	IZARD	56	050012,050011,050178

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	201,002.4809
Easting (M)	407,249.2430
Elevation (M)*	215.846
Northing (SFT)	659,455.6394
Easting (SFT)	1,336,116.8914
Elevation (SFT)*	708.155

Convergence Angle	0	2	48.7390924
Scale Factor			0.999983742
Elevation Adjust. Factor			0.9999661278
Combined Adjust. Factor			0.9999498704

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	42.1662732
Longitude	91	55	10.0200288
Ellipsoid Height (M):	187.830		
Geoid Height (M):	-27.881		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO EAST ON HIGHWAY 56 0.4 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 13.60 METERS OF THE CENTERLINE OF THE HGIHWAY AND NORTHWEST 1.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330002 2005" ON TOP OF A 1.00 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	330002A
Geodetic Azimuth	216 14 46
Grid Azimuth	216 11 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	BUTLER
Ref Mon # 3	FAA 7M9 A

Comments

3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330002A	10/11/2005	AHTD	IZARD	9	050012,050011,050178

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	200,389.7250
Easting (M)	406,800.7850
Elevation (M)*	195.911
Northing (SFT)	657,445.2894
Easting (SFT)	1,334,645.5755
Elevation (SFT)*	642.753

Convergence Angle	0	2	38.2894889
Scale Factor			0.999982805
Elevation Adjust. Factor			0.9999692561
Combined Adjust. Factor			0.9999520616

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	22.2974448
Longitude	91	55	27.9777864
Ellipsoid Height (M):	167.901		
Geoid Height (M):	-27.876		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO SOUTH ON HIGHWAY 9 0.25 MILES TO THE STATION MARK ON THE LEFT, EAST 10.8 METERS OF THE CENTERLINE OF THE HGIHWAY AND WEST 3.20 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330002A 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF HEADWALL	192	37.50	123.0
MK # 2				
MK # 3				

AZ Mark Station	330002
Geodetic Azimuth	36 14 36
Grid Azimuth	36 11 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	BUTLER
Ref Mon # 3	FAA 7M9 A

Comments

3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330003	10/11/2005	AHTD	IZARD	9	050012,050011

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,259.0890	
Easting (M)	406,533.7650	
Elevation (M)*	244.649	
Northing (SFT)	673,420.8612	
Easting (SFT)	1,333,769.5273	
Elevation (SFT)*	802.651	

Convergence Angle	0	2	32.1581591
Scale Factor	0.999990516		
Elevation Adjust. Factor	0.9999616081		
Combined Adjust. Factor	0.9999521245		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	11	0.2854428
Longitude	91	55	38.5145436
Ellipsoid Height (M):	216.633		
Geoid Height (M):	-27.926		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO NORTH ON HIGHWAY 9 3.1 MILES TO THE STATION MARK ON THE RIGHT, NORTHHEAST 24.0 METERS OF THE CENTERLINE OF THE HGIHWAY AND SOUTHEAST 6.40 METERS OF A A COUNTY ROAD (PLEASANT RIDGE RD.) AND NORTHWEST 3.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330003 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	323	17.60	57.7
MK # 2	GUY	329	13.70	44.9
MK # 3				

AZ Mark Station	330003A
Geodetic Azimuth	89 28 51
Grid Azimuth	89 26 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	BUTLER
Ref Mon # 3	FAA 7M9 A

Comments

3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330003A	10/11/2005	AHTD	IZARD	9	050012,050011

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,265.5090	
Easting (M)	407,189.0590	
Elevation (M)*	261.785	
Northing (SFT)	673,441.9241	
Easting (SFT)	1,335,919.4377	
Elevation (SFT)*	858.872	

Convergence Angle	0	2	47.4187439
Scale Factor			0.999990526
Elevation Adjust. Factor			0.9999589191
Combined Adjust. Factor			0.9999494455

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	11	0.4772616
Longitude	91	55	12.2890620
Ellipsoid Height (M):	233.766		
Geoid Height (M):	-27.925		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO NORTH ON HIGHWAY 9 3.1 MILES TO A COUNTY ROAD ON THE RIGHT (PLEASANT RIDGE RD.) AND TURN RIGHT (EAST) AND GO 0.40 MILES TO THE STATION MARK ON THE LEFT, NORTH 5.25 METERS OF THE CENTERLINE OF THE ROAD AND SOUTH 1.90 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330003A 2005" ON TOP OF A 0.50 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	77	21.50	70.5
MK # 2				
MK # 3				

AZ Mark Station	330003
Geodetic Azimuth	269 29 07
Grid Azimuth	269 26 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	BUTLER
Ref Mon # 3	FAA 7M9 A

Comments

3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330004	10/11/2005	AHTD	IZARD	9	050012,050011

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,033.9560	
Easting (M)	406,561.3670	
Elevation (M)*	212.469	
Northing (SFT)	692,367.2373	
Easting (SFT)	1,333,860.0849	
Elevation (SFT)*	697.077	

Convergence Angle	0	2	32.9006447
Scale Factor	1.000000424		
Elevation Adjust. Factor	0.9999666577		
Combined Adjust. Factor	0.9999670817		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	7.6412148
Longitude	91	55	37.2385740
Ellipsoid Height (M):	184.388		
Geoid Height (M):	-27.984		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO NORTH ON HIGHWAY 9 7.0 MILES TO THE STATION MARK ON THE RIGHT, EAST 10.4 METERS OF THE CENTERLINE OF THE HGIHWAY AND WEST 1.00 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330004 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	299	23.20	76.1
MK # 2				
MK # 3				

AZ Mark Station	330004A
Geodetic Azimuth	198 37 25
Grid Azimuth	198 34 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	BUTLER
Ref Mon # 3	FAA 7M9 A

Comments

3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330004A	10/11/2005	AHTD	IZARD	9	050012,050011

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,470.9710	
Easting (M)	406,372.1090	
Elevation (M)*	223.409	
Northing (SFT)	690,520.1774	
Easting (SFT)	1,333,239.1609	
Elevation (SFT)*	732.967	

Convergence Angle	0	2	28.4808908
Scale Factor			0.999999422
Elevation Adjust. Factor			0.9999649411
Combined Adjust. Factor			0.9999643631

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	13	49.3806972
Longitude	91	55	44.8339692
Ellipsoid Height (M):	195.335		
Geoid Height (M):	-27.978		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 56 AND STATE HIGHWAY 9, IN BROCKWELL, GO NORTH ON HIGHWAY 9 6.6 MILES TO THE STATION MARK ON THE LEFT, WEST 13.5 METERS OF THE CENTERLINE OF THE HGIHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "330004A 2005" ON TOP OF A 0.80 METER IRON ROD DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	240	13.30	43.6
MK # 2				
MK # 3				

AZ Mark Station	330004
Geodetic Azimuth	18 37 20
Grid Azimuth	18 34 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	BUTLER
Ref Mon # 3	FAA 7M9 A

Comments

3-Wire Levels ran from NGS E17 to H17 in Job 050011/050012 by S5103 in May 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330005	11/8/2006	AHTD	IZARD	9	050178

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	196,593.7910
Easting (M)	406,492.6000
Elevation (M)*	207.933
Northing (SFT)	644,991.4626
Easting (SFT)	1,333,634.4718
Elevation (SFT)*	682.192
Convergence Angle	0 2 31.0517312
Scale Factor	0.999977202
Elevation Adjust. Factor	0.9999673697
Combined Adjust. Factor	0.9999445724

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 6 19.1481696
Longitude	91 55 40.4159520
Ellipsoid Height (M):	179.945
Geoid Height (M):	-27.839

Location Description

To reach the station from the post office in Brockwell at the junction of highways 56 and 9, go south on highway 9 for 2.6 miles to the station on the right. 49.3 feet northwest of a private drive, 46.5 feet southwest of the center of hwy-9 and 2.5 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "330005 2006" set on top of a 5/8 inch by 3 foot long iron rod and is just below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Brick gate post	158	12.13	39.8
MK # 2	Telephone riser	330	31.24	102.5
MK # 3				

AZ Mark Station	330005A
Geodetic Azimuth	345 05 18
Grid Azimuth	345 02 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	330002

Comments

3-wire levels ran by crew S5103 on Feb. 20, 2007 from USGS mark 7KW. 7KW was tied from NGS marks E 17 & H 17 in jobs 050011/050012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330005A	11/8/2006	AHTD	IZARD	9	050178

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,990.0099	
Easting (M)	406,386.7760	
Elevation (M)*	199.935	
Northing (SFT)	646,291.3908	
Easting (SFT)	1,333,287.2809	
Elevation (SFT)*	655.952	

Convergence Angle	0	2	28.5963540
Scale Factor	0.999977770		
Elevation Adjust. Factor	0.9999686247		
Combined Adjust. Factor	0.9999463954		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	32.0058108
Longitude	91	55	44.6355444
Ellipsoid Height (M):	171.944		
Geoid Height (M):	-27.844		

Location Description

To reach the station from the post office in Brockwell at the junction of highways 56 and 9, go south on highway 9 for 2.4 miles to the station on the right. 55.7 feet northwest of the center of hwy-9 and 2.5 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "330005A 2006" set on top of a 5/8 inch by 4 foot long iron rod and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Wooden fence post	252	0.73	2.4
MK # 2				
MK # 3				

AZ Mark Station	330005
Geodetic Azimuth	165 05 15
Grid Azimuth	165 02 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	330002

Comments

3-wire levels ran by crew S5103 on Feb. 20, 2007 from USGS mark 7KW. 7KW was tied from NGS marks E 17 & H 17 in jobs 050011/050012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330006	12/11/2008	AHTD	IZARD	NA	050164

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,782.8120	
Easting (M)	389,806.5860	
Elevation (M)*	109.197	
Northing (SFT)	632,488.2757	
Easting (SFT)	1,278,890.4409	
Elevation (SFT)*	358.257	

Convergence Angle	0	3	57.0500026
Scale Factor	0.999971931		
Elevation Adjust. Factor	0.9999828637		
Combined Adjust. Factor	0.9999547952		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	15.3889428
Longitude	92	6	47.3730156
Ellipsoid Height (M):	81.305		
Geoid Height (M):	-27.892		

Location Description

To reach the station from the junction of highways 5 and 56 east in Calico Rock go east on hwy-56 for 0.40 miles to "east first street", turn right and go 0.40 miles to "Boswell road". Turn right on Boswell road and go 4.00 miles to the station on the left across the railroad tracks in the center of a field entrance. 16.7 feet northeast of the center of the tracks. The station mark is a 2 1/2 inch cap stamped "330006 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Wooden gate post	38	10.45	34.3
MK # 2	South end of a culvert	328	9.75	32.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARLR
Ref Mon # 3	ARBT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330007	10/19/2011	AHTD	Izard	223	05_5

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:		
Elevation Datum:		
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

The station is approx. 200 foot north of the junction of highways 56 & 223. It is a standard alum. cap stamped(330007 2011) and is set on a 3 foot 5/8" rebar. It is 2 foot west of a witness post and 35 foot east of the CL of highway 223. Lat.360901 Lon.092.0658

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of Gravel Drive	15	35.66	117.0
MK # 2	Combo. Pole	190	17.37	57.0
MK # 3	light pole	175	18.90	62.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330007A	10/19/2011	AHTD	Izard	223	05_5

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

Starting at the junction of 223 and 56 go north on 223 0.4 miles to the station on the left. THe station is a standard alum. cap stamped (330007A 2011) and is set on a 1 foot 5/8" rebar. It is 7.5 foot south east of a witness sign (no post the sign is nailed to a sand stone out crop), and 37 foot west of the CL of highway 223. Lat.36.0917 Lon.092.0648

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Asph. Drive	200	3.35	11.0
MK # 2	fire hydrant	190	10.67	35.0
MK # 3	6" Black walnut tree	0	9.14	30.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330008	10/19/2011	AHTD	Izard	56	05_5

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

Starting at the junction of highways 223 and 56 go east on 56 for 2.375 miles to the station on the right. The station is a standard alum. cap stamped(330008 2011) and is set on a 4 foot 5/8" rebar. It is 42 foot north of a witness post and 43 foot south of the CL of highway 56. Lat.36.0848 Lon.092.0436

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	power pole	190	12.80	42.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330008A	10/19/2011	AHTD	Izard	56	05_5

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

Starting at the junction of highway 223 and 56 go east on 56 for 2.775 miles to the station on the right. The station is a standard alum. cap stamped(330008A 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot north of a witness post and is 19 foot south of the CL of highway 56. Lat.36.0849 Lon.092.0411

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	End of the guard rail on the piney creek bridge	265	5.80	19.0
MK # 2	wood fence corner with gate	155	13.40	44.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330009	10/19/2011	AHTD	Izard	56	05_5

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		

Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

Starting at the junction of highway 223 and 56 go east on 56 for 4.55 to the station on the left. The station is a standard alum. cap stamped (330009 2011) and is set on a 4 foot 5/8" . It is 10 foot south of a witness post and 31 foot north of the CL of highway 56. Lat.360831 Lon.092.0223

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	metal brace post for gate	5	3.05	10.0
MK # 2	center of gate	60	7.62	25.0
MK # 3	guy wire	75	15.54	51.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330009A	10/19/2011	AHTD	Izard	56	05_5

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

Starting at the junction of highway 223 and 56 go east on 56 for 4.2 miles to the station on the on the left. The station is a standard alum. cap stamped (330009A 2011) and is set on a 4 foot 5/8" rebar. It is 10 south of a witness post and 30 foot north of the CL of highway 56.
Lat.36.0833 Lon.092.0245

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	metal brace post for gate	0	3.05	10.0
MK # 2	center of gate	65	7.62	25.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330010	10/19/2011	AHTD	Izard	56	05_5

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

Starting at the junction of highways 223 and 56 go east for 8.05 miles to the station on the right. The station is a standard alum. cap stamped (330010 2011) and is set on a 3 foot 5/8" rebar. It is 4 foot north of a witness post and 27 foot south of the CL of highway 56. Lat.36.0801 Lon.091.5854

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	top (break line) of pond bank	190	8.53	28.0
MK # 2	gravel driveway	100	57.60	189.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330010A	10/19/2011	AHTD	Izard	56	05_5

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

Starting at the junction of highways 223 and 56 go east on 56 for 7.775 miles to the station on the left. The station is a standard alum. cap stamped (330010A 2011) and is set on a 4 foot 5/8" rebar. It is 12 foot south of a witness post and 30 north of the CL of hgihway 56. Lat. 36.0805 Lon. 091.5911

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	wood fence corner	10	3.66	12.0
MK # 2	power pole	15	17.07	56.0
MK # 3	guy wire	305	15.85	52.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330011	3/9/2015	CLSI	Izard	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	198,000.7208	0.0020
Easting (M)	387,146.1997	0.0020
Elevation (M)*	108.330	
Northing (SFT)	649,607.3648	
Easting (SFT)	1,270,162.1568	
Elevation (SFT)*	355.412	

Convergence Angle	0	4	59.0937265
Scale Factor			0.999979227
Elevation Adjust. Factor			0.9999829998
Combined Adjust. Factor			0.9999622272

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	36	7	4.5703920
Longitude	92	8	33.9959148
Ellipsoid Height:			80.173
Grid Northing (Meters)			198,000.7298
Grid Easting (Meters)			387,146.1976

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	36	7	4.5701004	
Longitude	92	8	33.9958320	
Ellipsoid Height (M):			80.220	0.0110
Geoid Height (M):			-28.091	0.0110

Location Description

FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO SOUTH 350 FEET TO THE STATION MARK ON THE LEFT. THE STATION MARK IS LOCATED IN CALICO ROCK; EAST OF THE INTERSECTION OF HWY.5 (MAIN ST.) AND CALICO ST., BEING 31.5 FEET EAST OF THE CENTERLINE OF HWY.5 (MAIN ST.) AND 1.0 FEET WEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330011", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW CORNER "JERALD'S STATION" BUILDIN G	160	14.97	49.1
MK # 2	CL HWY. 5	265	9.60	31.5
MK # 3	POWER POLE	245	2.19	7.2

AZ Mark Station	330011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231 (GEOID 12A HT. -28.0805m).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330011A	3/9/2015	CLSI	Izard	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	198,007.7236	0.0020
Easting (M)	386,872.3087	0.0020
Elevation (M)*	136.077	
Northing (SFT)	649,630.3398	
Easting (SFT)	1,269,263.5661	
Elevation (SFT)*	446.447	

Convergence Angle	0	5	5.4670979
Scale Factor			0.999979237
Elevation Adjust. Factor			0.9999786455
Combined Adjust. Factor			0.9999578829

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	36	7	4.7846460
Longitude	92	8	44.9487888
Ellipsoid Height:			107.912
Grid Northing (Meters)			198,007.7349
Grid Easting (Meters)			386,872.3025

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	36	7	4.7842788	
Longitude	92	8	44.9485404	
Ellipsoid Height (M):			107.970	0.0110
Geoid Height (M):			-28.093	0.0110

Location Description

FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO SOUTH 350 FEET ALONG HWY. 5 TO THE INTERSECTION OF HWY.5 (MAIN ST.) AND CALICO ST., TURN RIGHT (WEST) ON CALICO ST. AND GO 855 FEET TO THE STATION MARK ON THE RIGHT, BEING 14.0 FEET NORTH OF THE CENTERLINE OF CALICO ST. AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330011A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	280	27.98	91.8
MK # 2	POWER POLE	140	12.50	41.0
MK # 3	POWER POLE	55	9.97	32.7

AZ Mark Station	330011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231 (GEOID 12A HT. -28.0826m).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330012	3/9/2015	CLSI	Izard	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	199,573.3098	0.0030
Easting (M)	385,634.1924	0.0020
Elevation (M)*	171.572	
Northing (SFT)	654,766.7672	
Easting (SFT)	1,265,201.5129	
Elevation (SFT)*	562.900	

Convergence Angle	0	5	34.3357179
Scale Factor	0.999981556		
Elevation Adjust. Factor	0.9999730754		
Combined Adjust. Factor	0.9999546319		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	7	55.5163824
Longitude	92	9	34.5595788
Ellipsoid Height (M):	143.361	0.0150	
Geoid Height (M):	-28.102		

Location Description

FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO NORTH ALONG HWY. 5; 1.50 MILES TO THE STATION MARK ON THE LEFT, BEING 32.9 FEET SOUTHWEST OF THE CENTERLINE OF HWY.5 AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330012", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL HWY. 5	40	32.90	107.9
MK # 2	CL ROADRUNNER LN.	130	8.84	29.0
MK # 3	TELEPHONE POLE	220	4.33	14.2

AZ Mark Station	330012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330012A	3/9/2015	CLSI	Izard	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	199,835.7997	0.0030
Easting (M)	385,419.0991	0.0030
Elevation (M)*	185.257	
Northing (SFT)	655,627.9528	
Easting (SFT)	1,264,495.8276	
Elevation (SFT)*	607.797	

Convergence Angle	0	5	39.3516309
Scale Factor	0.999981951		
Elevation Adjust. Factor	0.9999709280		
Combined Adjust. Factor	0.9999528795		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	8	4.0212708
Longitude	92	9	43.1794800
Ellipsoid Height (M):	157.046		0.0150
Geoid Height (M):	-28.105		

Location Description

FROM THE INTERSECTION OF HWY. 5 AND HWY. 56, GO NORTH ALONG HWY. 5; 1.70 MILES TO THE STATION MARK ON THE LEFT, BEING 32.5 FEET SOUTHWEST OF THE CENTERLINE OF HWY.5 AND 1.0 FEET NORTHWEST OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330012A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" PINE TREE	250	13.14	43.1
MK # 2	POWER POLE	170	11.19	36.7
MK # 3	CL HWY. 5	58	9.91	32.5

AZ Mark Station	330012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330013	3/9/2015	CLSI	Izard	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	202,054.5839	0.0020
Easting (M)	383,693.4549	0.0020
Elevation (M)*	204.890	
Northing (SFT)	662,907.4140	
Easting (SFT)	1,258,834.2766	
Elevation (SFT)*	672.210	

Convergence Angle	0	6	19.6087205
Scale Factor			0.999985356
Elevation Adjust. Factor			0.9999678471
Combined Adjust. Factor			0.9999532036

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	9	15.9101856	
Longitude	92	10	52.3617276	
Ellipsoid Height (M):			176.651	0.0140
Geoid Height (M):			-28.135	

Location Description

FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINES WITH HWY.5, GO SOUTH ALONG HWY. 5; 1.92 MILES TO THE STATION MARK ON THE RIGHT, BEING 34.4 FEET SOUTH OF THE CENTERLINE OF HWY.5, 62.0 FEET WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.0 FEET NORTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330013", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	23" PINE TREE	210	23.90	78.4
MK # 2	CL GRAVEL DRWY	85	18.90	62.0
MK # 3	CL HWY. 5	0	10.48	34.4

AZ Mark Station	330013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330013A	3/9/2015	CLSI	Izard	5	012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	202,171.6102	0.0030
Easting (M)	383,185.6081	0.0030
Elevation (M)*	212.023	
Northing (SFT)	663,291.3578	
Easting (SFT)	1,257,168.1159	
Elevation (SFT)*	695.613	

Convergence Angle	0	6	31.4362993
Scale Factor	0.999985537		
Elevation Adjust. Factor	0.9999667277		
Combined Adjust. Factor	0.9999522652		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	9	19.6761888	
Longitude	92	11	12.6875508	
Ellipsoid Height (M):	183.775			0.0140
Geoid Height (M):	-28.140			

Location Description

FROM THE INTERSECTION OF THE BAXTER AND IZARD COUNTY LINE WITH HWY.5, GO SOUTH ALONG HWY. 5; 1.60 MILES TO THE STATION MARK ON THE LEFT, BEING 26.9 FEET NORTH OF THE CENTERLINE OF HWY.5, 55.1 FEET WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.0 FEET SOUTH OF A WITNESS POST AND SIGN. THE STATION MARK IS A STANDARD 2-1/2" ALUMINUM CAP STAMPED "330013A", SET ON TOP OF A 5/8" REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL GRAVEL DRWY	100	16.79	55.1
MK # 2	18" POST OAK	335	9.42	30.9
MK # 3	CL HWY. 5	190	8.20	26.9

AZ Mark Station	330013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARM3
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330014	9/8/2015	AHTD	IZARD	69B	B089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	190,040.1775
Easting (M)	416,298.4519
Elevation (M)*	214.928
Northing (SFT)	623,490.1490
Easting (SFT)	1,365,805.8376
Elevation (SFT)*	705.141
Convergence Angle	0 6 18.9065290
Scale Factor	0.999968353
Elevation Adjust. Factor	0.9999662720
Combined Adjust. Factor	0.9999346261

Vertical Determined By:	None
Elevation Datum:	
Geoid Datum:	GEOID96
Latitude	36 2 46.1083200
Longitude	91 49 8.8449960
Ellipsoid Height (M):	187.083
Geoid Height (M):	-27.848

Location Description

TO REACH FROM THE JUNCTION OF HWY. 69B AND HWY. 289 IN SAGE. GO 102 FT. SOUTHEAST OF THE CENTER OF HWY. 69B AND HWY. 289 JUNCTION, AND 42 FT. SOUTH OF THE CENTERLINE OF HWY. 69B. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "330014 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	70	6.40	21.0
MK # 2	WOODEN FENCE CORNER	126	1.20	3.9
MK # 3	POWER POLE	341	30.80	101.0

AZ Mark Station	330014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARHR

Comments

Elevation is based on three wire from the static GPS observation on AHTD GPS Mon 330014A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330014A	9/8/2015	AHTD	IZARD	289	B089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	190,523.1583	
Easting (M)	416,285.1457	
Elevation (M)*		
Northing (SFT)	625,074.7285	
Easting (SFT)	1,365,762.1822	
Elevation (SFT)*		

Convergence Angle	0	6	18.6177977
Scale Factor	0.999968967		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID96			
Latitude	36	3	1.7794800	
Longitude	91	49	9.3411840	
Ellipsoid Height (M):	191.903			
Geoid Height (M):	-27.854			

Location Description

TO REACH FROM THE JUNCTION OF HWY. 289 AND HWY. 69B IN SAGE. GO NORTH ON HWY 289 FOR 0.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 38 FT. WEST OF THE CENTERLINE OF HWY. 289. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "330014A 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	242	0.90	3.0
MK # 2	POWER POLE W/2 GUY WIRES	161	7.60	24.9
MK # 3				

AZ Mark Station	330014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARHR

Comments

Elevation is based on static GPS observation.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330015	12/23/2015	AHTD	IZARD	56	50331

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	207,319.9680	0.0024
Easting (M)	416,201.1255	0.0024
Elevation (M)*		
Northing (SFT)	680,182.2617	
Easting (SFT)	1,365,486.5259	
Elevation (SFT)*		

Convergence Angle	0	6	17.3788693
Scale Factor	0.999993936		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	12	6.7451760	
Longitude	91	49	11.4702960	
Ellipsoid Height (M):	204.837			0.0091
Geoid Height (M):	-28.060			

Location Description

TO REACH FROM THE POST OFFICE IN VIOLET HILL GO EAST ON HWY. 56 FOR 0.50 MILES TO JOHNSON VIEW RD. ON THE LEFT, GO LEFT (NORTH) ON JOHNSON VIEW RD. FOR 3.1 MILES TO A GATE ON THE RIGHT, PASS THROUGH GATE AND GO +/- 225 FT. TO THE STATION NEAR THE EAST SIDE OF THE CREST OF THE HILL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	6 INCH OAK TREE	58	6.60	21.7
MK # 2	4 INCH OAK TREE	180	8.60	28.2
MK # 3	10 INCH OAK TREE	280	13.10	43.0

AZ Mark Station	330015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	P777
Ref Mon # 2	ARBT
Ref Mon # 3	ARM3

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
330015A	12/23/2015	AHTD	IZARD	56	50331

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,266.4125	0.0025
Easting (M)	416,091.8521	0.0025
Elevation (M)*		
Northing (SFT)	676,725.7217	
Easting (SFT)	1,365,128.0181	
Elevation (SFT)*		

Convergence Angle	0	6	14.7889387
Scale Factor	0.999992164		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	11	32.5705920	
Longitude	91	49	15.9211200	
Ellipsoid Height (M):	224.327			0.0101
Geoid Height (M):	-28.047			

Location Description

TO REACH FROM THE POST OFFICE IN VIOLET HILL GO EAST ON HWY. 56 FOR 0.50 MILES TO JOHNSON VIEW RD. ON THE LEFT, GO LEFT (NORTH) ON JOHNSON VIEW ROAD FOR 2.40 MILES TO THE CREST OF A HILL AND THE SATION ON THE RIGHT. THE STATION IS 1.5 METERS WEST OF A FENCE AND 7.4 METERS EAST OF THE CENTETRLINE OF THE ROAD. IT IS ACROSS THE ROAD FROM A DOUBLE GATE. THERE ARE NO REFERENCE MARKS

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	330015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	P777
Ref Mon # 2	ARBT
Ref Mon # 3	ARM3

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340001	11/3/1993	AHTD	JACKSON	67	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	144,631.9320	
Easting (M)	468,959.5830	
Elevation (M)*	71.734	
Northing (SFT)	474,513.2636	
Easting (SFT)	1,538,578.2319	
Elevation (SFT)*	235.347	

Convergence Angle	0	26	34.9797159
Scale Factor			0.999936320
Elevation Adjust. Factor			0.9999887427
Combined Adjust. Factor			0.9999250634

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	38	4.5831552
Longitude	91	14	19.0099572
Ellipsoid Height (M):			
Geoid Height (M):	-28.310		

Location Description

FROM THE JCT. OF HWY. 67 AND HWY. 17 EAST OF NEWPORT, GO NORTH ON HWY. 67 FOR 2.95 MILES (4.75 KM) TO THE STATION ON THE LEFT. THE STATION IS LOCATED IN THE MEDIAN 9.142 METERS WEST OF THE EDGE OF THE NORTHBOUND CONCRETE LANE, 9.153 METERS EAST OF THE EDGE OF THE SOUTHBOUND CONCRETE LANE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340001" ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	34001A
Geodetic Azimuth	180 53 43.13096
Grid Azimuth	180 27 08.15114

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340001A	11/3/1993	AHTD	JACKSON	67	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	144,165.6730	
Easting (M)	468,955.9030	
Elevation (M)*	72.942	
Northing (SFT)	472,983.5455	
Easting (SFT)	1,538,566.1584	
Elevation (SFT)*	239.311	

Convergence Angle	0	26	34.8112240
Scale Factor			0.999936259
Elevation Adjust. Factor			0.9999885532
Combined Adjust. Factor			0.9999248129

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	35	37	49.4551416	
Longitude	91	14	19.2995124	
Ellipsoid Height (M):				
Geoid Height (M):	-28.306			

Location Description

FROM THE JCT. OF HWY. 67 AND HWY. 17 EAST OF NEWPORT, GO NORTH ON HWY. 67 FOR 4.25 KM (2.64 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.134 METERS WEST OF THE WEST EDGE OF THE NORTHBOUND CONCRETE LANES, 9.180 METERS EAST OF THE EAST EDGE OF THE SOUTHBOUND CONCRETE LANES AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	340001
Geodetic Azimuth	0 53 42.96226
Grid Azimuth	0 27 08.15114

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340002	11/3/1993	AHTD	JACKSON	N\A	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	148,198.8710	
Easting (M)	471,462.5160	
Elevation (M)*	71.451	
Northing (SFT)	486,215.7959	
Easting (SFT)	1,546,789.9379	
Elevation (SFT)*	234.419	

Convergence Angle	0	27	33.5294614
Scale Factor	0.999936964		
Elevation Adjust. Factor	0.9999887871		
Combined Adjust. Factor	0.9999257518		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	39	59.6813616
Longitude	91	12	38.3915808
Ellipsoid Height (M):			
Geoid Height (M):	-28.338		

Location Description

THE STATION IS LOCATED IN T-12-N R-2-W IN THE NE 1/4 OF THE NE 1/4 OF SECTION 20. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.8 MILES) TO THE JCT. WITH HWY. 980, TURN LEFT AND CONTINUE AHEAD ON HWY. 18 FOR 1.69 KM (1.05 MILES) TO A SHARP CURVE AND CO. RD. NO. 43 STRAIGHT AHEAD, TAKE CO. RD. NO. 43 AND GO 0.80 KM (0.50 MILES) TO A CURVE RIGHT, TURN RIGHT (EAST) AND GO 0.80 KM (0.50 MILES) TO A CURVE LEFT, TURN LEFT AND GO 0.61 KM (0.38 MILES) TO THE STATION ON THE LEFT. THE STATION IS 7.90 METERS WEST OF THE CENTERLINE OF CO. RD. NO. 43, 57.48 METERS NORTHWEST OF A ONE STORY FRAME HOUSE AND 2.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC POWER POLE	180	50.83	166.8
MK # 2	NBC POWER POLE	3	42.44	139.2
MK # 3	NONE			

AZ Mark Station	34002A
Geodetic Azimuth	182 03 49.84637
Grid Azimuth	181 36 16.31648

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340002A	11/3/1993	AHTD	JACKSON	18	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	147,670.1349
Easting (M)	471,447.7050
Elevation (M)*	71.561
Northing (SFT)	484,481.1009
Easting (SFT)	1,546,741.3455
Elevation (SFT)*	234.780

Convergence Angle	0	27	33.0887265
Scale Factor	0.999936848		
Elevation Adjust. Factor	0.9999887699		
Combined Adjust. Factor	0.9999256186		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	39	42.5291904
Longitude	91	12	39.1489884
Ellipsoid Height (M):			
Geoid Height (M):	-28.334		

Location Description

THE STATION IS LOCATED IN T-12-N R-2-W IN THE SE 1/4 OF THE SE 1/4 OF SECTION 20. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. OF HWY. 980, TURN LEFT (NORTH) ON HWY. 18 AND GO 1.69 KM (1.05MILES) TO A SHARP CURVE AND CO. RD. NO. 43 LEADING NORTH, GO NORTH ON CO. RD. NO. 43 FOR 0.80 KM (0.50 MILES) TO A CURVE RIGHT, GO RIGHT FOR 0.80 KM (0.50 MILES) TO A CURVE LEFT, GO LEFT (NORTH) FOR 0.08 KM (0.05 MILES) TO THE STATION ON THE LEFT. THE STATION IS 8.525 METERS WEST OF THE CENTERLINE OF THE CO. RD. AND 2.0 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34002A" AND SET ON TOP OF AN 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	180	66.22	217.3
MK # 2	NBC IN POWER POLE	3	27.99	91.8
MK # 3	NONE			

AZ Mark Station	340002
Geodetic Azimuth	2 03 49.404779
Grid Azimuth	01 36 16.316483

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340003	11/3/1993	AHTD	JACKSON	384	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	148,285.8060	
Easting (M)	477,969.6800	
Elevation (M)*	71.640	
Northing (SFT)	486,501.0152	
Easting (SFT)	1,568,138.8585	
Elevation (SFT)*	235.039	

Convergence Angle	0	30	4.1051681
Scale Factor			0.999936971
Elevation Adjust. Factor			0.9999887575
Combined Adjust. Factor			0.9999257292

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	40	0.7324428
Longitude	91	8	19.6255860
Ellipsoid Height (M):			
Geoid Height (M):	-28.349		

Location Description

THE STATION IS LOCATED IN T-12-N R-1-W IN THE SW 1/4 OF THE SW 1/4 OF SECTION 18. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. WITH HWY. 980, GO LEFT ON HWY. 18 AND CONTINUE ON HWY. 18 FOR 9.06 KM (5.63 MILES) TO THE JCT. WITH HWY. 384 LEADING SOUTH AND CO. RD. NO. 38 LEADING NORTH, GO LEFT (NORTH) ON CO. RD. NO. 38 FOR 1.635 KM (1.02 MILES) TO CO. RD. NO. 204 ON THE RIGHT LEADING EAST. THE STATION IS 13.48 METERS NORTH OF THE CENTERLINE OF CO. RD. NO. 204, 9.60 METERS EAST OF THE CENTERLINE OF CO. RD. NO. 38 AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	34003A
Geodetic Azimuth	180 57 22.04345
Grid Azimuth	180 27 17.93807

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340003A	11/3/1993	AHTD	JACKSON	384	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	147,740.7960	
Easting (M)	477,965.3520	
Elevation (M)*	70.966	
Northing (SFT)	484,712.9282	
Easting (SFT)	1,568,124.6590	
Elevation (SFT)*	232.828	

Convergence Angle	0	30	3.8947438
Scale Factor			0.999936852
Elevation Adjust. Factor			0.9999888632
Combined Adjust. Factor			0.9999257159

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	35	39	43.0497108	
Longitude	91	8	19.9872024	
Ellipsoid Height (M):				
Geoid Height (M):	-28.344			

Location Description

THE STATION IS LOCATED IN T-12-N R-1-W IN THE SW 1/4 OF THE NW 1/4 OF SECTION 19. FROM THE JCT. OF HWY. 67 AND HWY. 18 NORTH OF NEWPORT, GO EAST ON HWY. 18 FOR 2.90 KM (1.80 MILES) TO THE JCT. WITH HWY. 980, GO LEFT (NORTH) AND CONTINUE ON HWY. 18 FOR 9.06 KM (5.63 MILES) TO THE JCT. OF HWY. 18 AND HWY. 384 LEADING SOUTH AND CO. RD. NO. 38 LEADING NORTH, TURN LEFT (NORTH) ON CO. RD. NO. 38 AND GO 1.09 KM (0.68 MI.) TO THE STATION ON THE RIGHT. THE STATION IS 8.54 METERS EAST OF THE CENTERLINE OF CO. RD. NO. 38, 8.80 METERS SOUTH OF A FIELD ROAD AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	340003
Geodetic Azimuth	0 57 21.832620
Grid Azimuth	0 27 17.938069

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340004	11/3/1993	AHTD	JACKSON	37	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	154,751.4779	
Easting (M)	481,399.8490	
Elevation (M)*	73.694	
Northing (SFT)	507,713.8071	
Easting (SFT)	1,579,392.6713	
Elevation (SFT)*	241.778	

Convergence Angle	0	31	24.8370322
Scale Factor	0.999938936		
Elevation Adjust. Factor	0.9999884351		
Combined Adjust. Factor	0.9999273718		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	35	43	29.5274064	
Longitude	91	6	0.8869968	
Ellipsoid Height (M):				
Geoid Height (M):	-28.409			

Location Description

THE STATION IS LOCATED IN T-13-N R-1-W IN THE SE 1/4 OF THE SW 1/4 OF SECTION 28. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 10.68 KM (6.75 MILES) TO THE STATION ON THE RIGHT IN FRONT OF A METAL SHOP BUILDING. THE STATION IS 14.54 METERS NORTH OF THE CENTERLINE OF HWY. 37, 38.78 METERS WEST OF THE CENTER OF A DRIVEWAY TO THE SHOP BUILDING AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340004" AND SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	15	124.15	407.3
MK # 2	NBC IN POWER POLE	36	148.10	485.9
MK # 3	NBC IN POWER POLE	83	155.02	508.6

AZ Mark Station	34004A
Geodetic Azimuth	271 33 52.35222
Grid Azimuth	271 02 27.48523

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

ELEVATION (NAVD88) = 242.014 FEET. CONVERTED BY VERTCON ON 03/19/2003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340004A	11/3/1993	AHTD	JACKSON	37	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	154,765.1890	
Easting (M)	480,645.2510	
Elevation (M)*	73.673	
Northing (SFT)	507,758.7909	
Easting (SFT)	1,576,916.9610	
Elevation (SFT)*	241.709	

Convergence Angle	0	31	7.3679299
Scale Factor			0.999938944
Elevation Adjust. Factor			0.9999884384
Combined Adjust. Factor			0.9999273831

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	43	30.1949868
Longitude	91	6	30.9078396
Ellipsoid Height (M):			
Geoid Height (M):	-28.407		

Location Description

THE STATION IS LOCATED IN T-13-N R-1-W IN THE SE 1/4 OF THE SE 1/4 OF SECTION 29. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 11.62 KM (7.22 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.614 METERS NORTH OF THE CENTERLINE OF HWY. 37, 15.327 METERS WEST OF THE CENTER OF A FIELD ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	340004
Geodetic Azimuth	91 33 34.823188
Grid Azimuth	91 02 27.485229

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

ELEVATION (NAVD88) = 241.949 FEET. CONVERTED BY VERTCON ON 03/19/2003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340005	11/3/1993	AHTD	JACKSON	CR 82	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	157,861.5309	
Easting (M)	484,552.0590	
Elevation (M)*	73.505	
Northing (SFT)	517,917.3726	
Easting (SFT)	1,589,734.5469	
Elevation (SFT)*	241.158	

Convergence Angle	0	32	38.5068241
Scale Factor	0.999940239		
Elevation Adjust. Factor	0.9999884648		
Combined Adjust. Factor	0.9999287045		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	45	9.4844772
Longitude	91	3	54.2846556
Ellipsoid Height (M):			
Geoid Height (M):	-28.444		

Location Description

THE STATION IS LOCATED IN T-13-N R-1W IN THE NE 1/4 OF THE NW 1/4 OF SECTION 23. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS,GO NORTH ON HWY. 37 FOR 8.29 KM (5.15 MILES) TO A SHARP CURVE AND CO. RD. NO. 74 HEADING NORTH, TAKE CO. RD. NO. 74 AND GO NORTH FOR 3.35 KM (2.08 MILES) TO AN INTERSECTION WITH COUNTY ROAD 82, GO RIGHT (EAST) ON CO. RD.NO. 82 FOR 0.61 KM (0.38 MI.) TO THE STATION ON THE RIGHT. THE STATION IS 6.19 METERS SOUTH OF THE CENTERLINE OF CO. RD. NO. 82, 43.10 METERS SOUTHWEST OF A DRIVEWAY AND 1.0 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "340005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	27	16.85	55.3
MK # 2	NBC IN POWER POLE	145	15.15	49.7
MK # 3	NBC IN POWER POLE	168	15.31	50.2

AZ Mark Station	34005A
Geodetic Azimuth	270 18 34.78556
Grid Azimuth	269 45 56.24893

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340005A	11/3/1993	AHTD	JACKSON	CR 82	RX0017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	157,858.9649	
Easting (M)	483,924.7900	
Elevation (M)*	74.319	
Northing (SFT)	517,908.9540	
Easting (SFT)	1,587,676.5819	
Elevation (SFT)*	243.828	

Convergence Angle	0	32	23.9774902
Scale Factor	0.999940240		
Elevation Adjust. Factor	0.9999883371		
Combined Adjust. Factor	0.9999285778		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	45	9.5937588
Longitude	91	4	19.2534744
Ellipsoid Height (M):			
Geoid Height (M):	-28.442		

Location Description

THE STATION IS LOCATED IN T-13-N R-1-W IN THE NE 1/4 OF THE NE 1/4 OF SECTION 22. FROM THE JCT. OF HWY. 37 AND HWY. 18 IN GRUBBS, GO NORTH ON HWY. 37 FOR 8.29 KM (5.15 MILES) TO A SHARP CURVE AND CO. RD. NO. 74 LEADING NORTH, TAKE CO. RD. NO. 74 NORTH FOR 3.35 KM (2.08 MILES) TO THE JCT. WITH CO. RD. NO. 82 AND THE STATION ON THE LEFT. THE STATION IS 10.512 METERS WEST OF THE CENTERLINE OF CO. RD. NO. 74, 8.823 METERS SOUTH OF THE CENTER OF CO. RD. NO. 82 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "34005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	188	28.41	93.2
MK # 2	NBC IN POWER SERVICE POLE	223	19.81	65.0
MK # 3	NBC IN POWER POLE	337	17.34	56.9

AZ Mark Station	340005
Geodetic Azimuth	90 18 20.196618
Grid Azimuth	89 45 56.248934

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340006	12/20/2002	AHTD	JACKSON	67	050013

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	155,169.0950	
Easting (M)	472,459.2270	
Elevation (M)*	73.874	
Northing (SFT)	509,083.9392	
Easting (SFT)	1,550,059.9806	
Elevation (SFT)*	242.370	

Convergence Angle	0	27	57.9027018
Scale Factor	0.999939130		
Elevation Adjust. Factor	0.9999884068		
Combined Adjust. Factor	0.9999275375		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	43	45.5830896
Longitude	91	11	56.5059012
Ellipsoid Height (M):	46.192		
Geoid Height (M):	-27.561		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-67 AND MAIN STREET IN TUCKERMAN, GO SOUTH ON HWY-67 ONE BLOCK TO ELM STREET, TURN LEFT (EAST) ON ELM STREET AND GO ONE BLOCK TO FRONT STREET, TURN RIGHT (SOUTH) ON FRONT STREET AND GO 32.2 METERS SOUTH TO THE STATION ON THE LEFT. 6.2 METERS EAST OF THE CENTER OF FRONT STREET AND 0.50 METERS WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	216	14.10	46.3
MK # 2	NORTHEAST CORNER OF STORAGE BUILDING	304	16.50	54.1
MK # 3				

AZ Mark Station	340006A
Geodetic Azimuth	29 43 34
Grid Azimuth	29 15 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	AHTD PAR1

Comments

ELEV. BY 3 WIRE FROM GPS 340004 BY JEWELL

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340006A	12/20/2002	AHTD	JACKSON	67	050013

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	155,469.1970	
Easting (M)	472,627.3610	
Elevation (M)*	73.813	
Northing (SFT)	510,068.5238	
Easting (SFT)	1,550,611.6002	
Elevation (SFT)*	242.169	

Convergence Angle	0	28	1.8525879
Scale Factor	0.999939250		
Elevation Adjust. Factor	0.9999884164		
Combined Adjust. Factor	0.9999276671		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	43	55.2759996
Longitude	91	11	49.7179788
Ellipsoid Height (M):	46.122		
Geoid Height (M):	-27.565		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-67 AND HWY-37 SOUTH IN THE TOWN OF TUCKERMAN, GO ONE BLOCK NORTH ON HWY-67 TO "HAZEL STREET" ON THE RIGHT, TURN RIGHT (EAST) ON HAZEL STREET AND GO ONE BLOCK TO FRONT STREET, TURN RIGHT (SOUTH) ON FRONT STREET AND GO SOUTH ON FRONT STREET FOR 31.6 METERS TO THE STATION ON THE LEFT. 6.7 METERS EAST OF THE CENTER OF FRONT STREET, 31.6 METERS SOUTH OF THE HAZEL STREET AND FRONT STREET INTERSECTION AND 0.50 METERS WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF A 24INCH CMP	66	26.30	86.3
MK # 2	POWER POLE	25	39.50	129.6
MK # 3				

AZ Mark Station	340006
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	AHTD PAR1

Comments

ELEV. BY 3 WIRE FROM GPS 340004 BY JEWELL

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340007	7/31/2006	AHTD	JACKSON	67	001786

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	162,912.9169	
Easting (M)	476,746.2690	
Elevation (M)*	75.408	
Northing (SFT)	534,490.1282	
Easting (SFT)	1,564,125.0509	
Elevation (SFT)*	247.400	

Convergence Angle	0	29	38.7171656
Scale Factor	0.999942923		
Elevation Adjust. Factor	0.9999881662		
Combined Adjust. Factor	0.9999310899		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	55.6880892
Longitude	91	9	3.2556996
Ellipsoid Height:	47.137		
Grid Northing (Meters)	162,913.2510		
Grid Easting (Meters)	476,746.2522		

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	55.6772460
Longitude	91	9	3.2551452
Ellipsoid Height (M):	47.302		
Geoid Height (M):	-27.661		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO SOUTH ON HIGHWAY 67 0.05 MILES TO THE STATION MARK ON THE RIGHT, SOUTH OF HARTSELL'S LIQUOR STORE, NORTHWEST 55.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND 5.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	280	1.52	5.0
MK # 2	POWER POLE	218	26.52	87.0
MK # 3	FIRE HYDRANDT	24	31.82	104.4

AZ Mark Station	340008
Geodetic Azimuth	34 01 24
Grid Azimuth	33 31 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT, ARPG
Ref Mon # 2	BUTLER
Ref Mon # 3	160029, 160004A

Comments

340007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER. 3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340008	7/31/2006	AHTD	JACKSON	67	001786

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,223.7740
Easting (M)	476,952.2480
Elevation (M)*	75.380
Northing (SFT)	535,509.9985
Easting (SFT)	1,564,800.8336
Elevation (SFT)*	247.310

Convergence Angle	0	29	43.5531175
Scale Factor			0.999943106
Elevation Adjust. Factor			0.9999881705
Combined Adjust. Factor			0.9999312772

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	48	5.7164616
Longitude	91	8	54.9450600
Ellipsoid Height:			47.577
Grid Northing (Meters)			163,224.1072
Grid Easting (Meters)			476,952.2313

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	5.7056436
Longitude	91	8	54.9445092
Ellipsoid Height (M):			47.740
Geoid Height (M):			-27.665

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO NORTH ON HIGHWAY 67 0.15 MILES TO THE STATION MARK ON THE RIGHT, 8.0 FEET SOUTHWEST OF OLD RAILROAD CROSSING, 44.2 FEET NORTHWEST OF CENTERLINE OF RAILROAD TRA

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	340007
Geodetic Azimuth	214 01 29
Grid Azimuth	213 31 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT, ARPG
Ref Mon # 2	BUTLER
Ref Mon # 3	160029, 160004A

Comments

40007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER.3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340009	7/31/2006	AHTD	JACKSON	226	001786

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	163,018.2529	
Easting (M)	477,692.0870	
Elevation (M)*	74.207	
Northing (SFT)	534,835.7181	
Easting (SFT)	1,567,228.1221	
Elevation (SFT)*	243.460	

Convergence Angle	0	30	0.6582125
Scale Factor			0.999942980
Elevation Adjust. Factor			0.9999883547
Combined Adjust. Factor			0.9999313353

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	47	58.8395112
Longitude	91	8	25.5498000
Ellipsoid Height:			46.418
Grid Northing (Meters)			163,018.5855
Grid Easting (Meters)			477,692.0695

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	58.8287148
Longitude	91	8	25.5492168
Ellipsoid Height (M):	46.573		
Geoid Height (M):	-27.662		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO EAST ON HIGHWAY 226 0.55 MILES TO THE STATION MARK ON THE LEFT, 32.4 FEET WEST OF A FIELD ROAD, NORTH 68.3 FEET OF THE CENTERLINE OF THE HIGHWAY, AND 1.5 FEET

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CMP	153	8.38	27.5
MK # 2				
MK # 3				

AZ Mark Station	340008
Geodetic Azimuth	286 01 30
Grid Azimuth	285 31 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT, ARPG
Ref Mon # 2	BUTLER
Ref Mon # 3	160029, 160004A

Comments

40007, 340008, & 340009 ALL HAVE A DIRECT LINE OF SIGHT BETWEEN EACH OTHER. 3-Wire Levels were ran from NGS M246/RB69 RESET in Job 001786/050007/100412 in July 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340010	7/31/2006	AHTD	JACKSON	CR 81	001786,100880

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	162,395.8579	
Easting (M)	482,361.1090	
Elevation (M)*		
Northing (SFT)	532,793.7438	
Easting (SFT)	1,582,546.4051	
Elevation (SFT)*		

Convergence Angle	0	31	48.7319690
Scale Factor	0.999942594		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	47	37.2722280
Longitude	91	5	19.8232872
Ellipsoid Height (M):	46.625		
Geoid Height (M):	-27.650		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO EAST ON HIGHWAY 226 2.1 MILES TO COUNTY ROAD 81 ON THE RIGHT, TURN RIGHT AND GO 0.30 MILE TO THE STATION MARK ON THE LEFT, 22.0 FEET EAST OF THE CENTERLINE OF

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	47	37.2828084
Longitude	91	5	19.8242412
Ellipsoid Height:	46.514		
Grid Northing (Meters)	162,396.1838		
Grid Easting (Meters)	482,361.0820		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	74	30.57	100.3
MK # 2	POWER POLE WITH GUY	321	17.37	57.0
MK # 3				

AZ Mark Station	340010A
Geodetic Azimuth	14°49'09"
Grid Azimuth	14°17'20"

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT, ARPG
Ref Mon # 2	BUTLER
Ref Mon # 3	160029, 160004A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340010A	7/31/2006	AHTD	JACKSON	226	001786

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	162,879.5150
Easting (M)	482,484.2920
Elevation (M)*	
Northing (SFT)	534,380.5421
Easting (SFT)	1,582,950.5480
Elevation (SFT)*	
Convergence Angle	0 31 51.6904736
Scale Factor	0.999942873
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 47 52.9279440
Longitude	91 5 14.7390648
Ellipsoid Height (M):	47.186
Geoid Height (M):	-27.657

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND 226, NORTH OF TUCKERMAN, GO EAST ON HIGHWAY 226 2.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 91.3 FEET OF THE CENTERLINE OF THE HIGHWAY, 33.1 FEET EAST OF COUNTY ROAD 81 AND 1.5 FE

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 47 52.9385604
Longitude	91 5 14.7399792
Ellipsoid Height:	47.076
Grid Northing (Meters)	162,879.8419
Grid Easting (Meters)	482,484.2660

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	340010
Geodetic Azimuth	194°49'12"
Grid Azimuth	194°17'20"

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT, ARPG
Ref Mon # 2	BUTLER
Ref Mon # 3	160029, 160004A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340011	12/27/2010	AHTD	Jackson	367	005836

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	141,897.8150
Easting (M)	461,707.5250
Elevation (M)*	71.249
Northing (SFT)	465,543.0814
Easting (SFT)	1,514,785.4383
Elevation (SFT)*	233.758
Convergence Angle	0 23 46.8136766
Scale Factor	0.999936040
Elevation Adjust. Factor	0.9999888188
Combined Adjust. Factor	0.9999248595

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	36	37.5911568
Longitude	91	19	8.0051304
Ellipsoid Height (M):	43.877		
Geoid Height (M):	-27.372		

Location Description

To reach the station from the junction of highways 367 and 14 just northeast of Newport go west on highway 367 for 0.90 miles to the station on the right at the end of a bridge. 17.5 feet north of the center of hwy-367 and 4.40 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "340011 2010" set on top of a 5/8 inch by 4 foot long rebar and 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northwest corner of a bridge	183	2.43	8.0
MK # 2				
MK # 3				

AZ Mark Station	340011A
Geodetic Azimuth	310 51 42
Grid Azimuth	310 27 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	Newsport

Comments

Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340011A	12/27/2010	AHTD	Jackson	14	005836

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	142,456.9930
Easting (M)	461,052.0110
Elevation (M)*	68.636
Northing (SFT)	467,377.6512
Easting (SFT)	1,512,634.8061
Elevation (SFT)*	225.184
Convergence Angle	0 23 31.7457203
Scale Factor	0.999936084
Elevation Adjust. Factor	0.9999892289
Combined Adjust. Factor	0.9999253135

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 36 55.8816192
Longitude	91 19 33.8995776
Ellipsoid Height (M):	41.261
Geoid Height (M):	-27.374

Location Description

To reach the station from the junction of highways 367 and 14 just northeast of Newport go west on highway 14 for 1.20 miles to the station on the right. 30.0 feet north of the center of hwy-14, 41.0 feet east of a field entrance and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "340011A 2010" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	99	14.63	48.0
MK # 2	power pole with guy wire	43	18.29	60.0
MK # 3				

AZ Mark Station	340011
Geodetic Azimuth	130 51 27
Grid Azimuth	130 27 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	Newsport

Comments

Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340012	12/27/2010	AHTD	Jackson	NA	005836

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	141,193.1210
Easting (M)	464,555.2300
Elevation (M)*	68.900
Northing (SFT)	463,231.0978
Easting (SFT)	1,524,128.2838
Elevation (SFT)*	226.049
Convergence Angle	0 24 52.5387285
Scale Factor	0.999935994
Elevation Adjust. Factor	0.9999891875
Combined Adjust. Factor	0.9999251822

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 36 14.0714712
Longitude	91 17 15.0559116
Ellipsoid Height (M):	41.517
Geoid Height (M):	-27.383

Location Description

To reach the station from the intersection of Front and Walnut streets in downtown Newport go southwest on Front street for 0.29 miles passing the railroad station and the station on the right at the intersection of Front and Pine streets. 32.0 feet northwest of the center of Front street, 24.8 feet southeast of the southeastern rail of the track and 1.50 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "340012 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	154	4.88	16.0
MK # 2	18 inch RCP	175	4.57	15.0
MK # 3	Combination pole with arm	76	10.67	35.0

AZ Mark Station	340012A
Geodetic Azimuth	52 58 41
Grid Azimuth	52 33 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ewsport

Comments

Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340012A	12/27/2010	AHTD	Jackson	NA	005836

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	141,419.3260
Easting (M)	464,850.7040
Elevation (M)*	69.531
Northing (SFT)	463,973.2387
Easting (SFT)	1,525,097.6847
Elevation (SFT)*	228.120
Convergence Angle	0 24 59.4079646
Scale Factor	0.999936007
Elevation Adjust. Factor	0.9999890884
Combined Adjust. Factor	0.9999250961

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 36 21.3417828
Longitude	91 17 3.2510544
Ellipsoid Height (M):	42.142
Geoid Height (M):	-27.387

Location Description

To reach the station from the intersection of Front and Walnut streets in downtown Newport go southwest on Front street for 0.06 miles to the station on the right 53 feet northwest of the center of Front street, 187 feet southwest of the southwest corner of the Newport train station, 35.5 feet southeast of the southeast rail of the track. The station mark is a PK nail with shiner epoxied into a 13 foot by 5 foot concrete curb and stamped "B&F Engr. Gps 12 PLS 1120"

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole with guy wire	115	10.97	36.0
MK # 2				
MK # 3				

AZ Mark Station	340012
Geodetic Azimuth	232 58 48
Grid Azimuth	232 33 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	Newsport

Comments

Elev. was est. by crew S5102 in Jan. 11 from NGS mark B9 during Job 005836. The loop is open and needs to be closed to another NGS mark.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340013	4/23/2012	AHTD	Jackson	14	050272

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	136,838.2610	
Easting (M)	476,301.9734	
Elevation (M)*	69.033	
Northing (SFT)	448,943.5280	
Easting (SFT)	1,562,667.3911	
Elevation (SFT)*	226.486	

Convergence Angle	0	29	23.2544940	
Scale Factor	0.999935998			
Elevation Adjust. Factor	0.9999891666			
Combined Adjust. Factor	0.9999251653			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	33	49.7578608	
Longitude	91	9	29.8279152	
Ellipsoid Height (M):	41.641			
Geoid Height (M):	-27.394			

Location Description

To reach the station from the post office in Amagon go west on highway 14 for 2.8 miles to the station on the left at the intersection of highway 14 and county road 145. 32.0 feet east of the center of county road 145, 40 feet south of the center of highway 14 and 2 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "340013 2012" set on top of a 5/8 inch by 4 foot long rebar and is .20 feet below the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP	175	3.00	9.8
MK # 2				
MK # 3				

AZ Mark Station	340013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1

Comments

DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340013A	4/23/2012	AHTD	Jackson	14	050272

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	136,903.5890	
Easting (M)	476,850.1687	
Elevation (M)*	67.430	
Northing (SFT)	449,157.8582	
Easting (SFT)	1,564,465.9285	
Elevation (SFT)*	221.226	

Convergence Angle	0	29	35.9350568
Scale Factor	0.999935995		
Elevation Adjust. Factor	0.9999894182		
Combined Adjust. Factor	0.9999254139		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	33	51.7249908
Longitude	91	9	8.0362296
Ellipsoid Height (M):	40.037		
Geoid Height (M):	-27.396		

Location Description

To reach the station from the post office in Amagon go west on HWY-14 for 2.45 miles to the station on the right. 42.6 feet north of the center of HWY-14, 26.3 feet east of a field entrance and 4 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "340013A 2012" set on top of a 5/8 inch by 4 foot rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CL field entrance	263	8.00	26.2
MK # 2	power pole	356	1.25	4.1
MK # 3				

AZ Mark Station	340013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1 / NEWSPORT

Comments

DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340014	4/23/2012	AHTD	Jackson	14	050272

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	136,130.5942	
Easting (M)	481,523.3994	
Elevation (M)*	68.569	
Northing (SFT)	446,621.7911	
Easting (SFT)	1,579,798.0195	
Elevation (SFT)*	224.964	

Convergence Angle	0	31	23.7600514
Scale Factor	0.999936048		
Elevation Adjust. Factor	0.9999892394		
Combined Adjust. Factor	0.9999252881		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	33	25.2979272
Longitude	91	6	2.7378000
Ellipsoid Height (M):	41.169		
Geoid Height (M):	-27.401		

Location Description

To reach the station from the post office in Amagon go east on HWY-14 for 0.50 miles to county road 104 on the right, turn right (south) on CR 104 and go 0.55 miles to the station on the right near a power pole. 14.75 feet west of the center of the road and 4.26 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "340014 2012" set on top of a 5/8 inch by 4 foot long rebar ond is 0.10 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	264	1.30	4.3
MK # 2				
MK # 3				

AZ Mark Station	340014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1 / Newsport

Comments

DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340014A	4/23/2012	AHTD	Jackson	14	050272

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	136,617.4965	
Easting (M)	481,782.8255	
Elevation (M)*	69.287	
Northing (SFT)	448,219.2364	
Easting (SFT)	1,580,649.1533	
Elevation (SFT)*	227.320	

Convergence Angle	0	31	29.8573527
Scale Factor	0.999936014		
Elevation Adjust. Factor	0.9999891267		
Combined Adjust. Factor	0.9999251414		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	33	41.0196960
Longitude	91	5	52.2595212
Ellipsoid Height (M):	41.887		
Geoid Height (M):	-27.404		

Location Description

to reach the station from the post office in Amagon go east on HWY-14 for 0.65 miles to the station on the right, 42 feet south of the center of the highway, 20 feet east of a field entrance and 3.2 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "340014A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.15 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	340014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1 / Newsport

Comments

DIGITAL LEVELS WERE RAN BY CREW S5102 DURING JOB 050272 FROM NGS BMS M 16 AND D 9 IN APRIL 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340015	4/10/2023	ARDOT	JACKSON	17	050451

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	139,234.6658	0.0020
Easting (M)	469,376.6812	0.0020
Elevation (M)*		

Northing (SFT)	456,805.7327	
Easting (SFT)	1,539,946.6616	
Elevation (SFT)*		

Convergence Angle	0	26	43.6559373
Scale Factor			0.999935936
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	35	9.3497568	
Longitude	91	14	4.0997760	
Ellipsoid Height (M):	41.094			0.0060
Geoid Height (M):	-27.517			0.0060

Location Description

TO REACH FROM THE JCT. OF HWY I-67 AND HWY 17 IN NEWPORT, HEAD SOUTH ON HWY 17 FOR 1.15 MILES TO COUNTY ROAD 255. HEAD LEFT/EAST ON COUNTY ROAD 255 FOR 0.05 MILES T0 COUNTY ROAD 252. HEAD NORTH/LEFT ON COUNTY ROAD 252 FOR 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.0FT N OF THE CENTER LINE OF COUNTY ROAD 252. THE STATION MARK IS A 2 1/2IN CAP STAMPED "340015 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	207	10.50	34.4
MK # 2				
MK # 3				

AZ Mark Station	340015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARSC, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340015A	4/10/2023	ARDOT	JACKSON	17	050451

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	138,832.0199	0.0020
Easting (M)	469,339.8460	0.0020
Elevation (M)*		
Northing (SFT)	455,484.7186	
Easting (SFT)	1,539,825.8114	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	34	56.2940868	
Longitude	91	14	5.6872284	
Ellipsoid Height (M):	44.442			0.0060
Geoid Height (M):	-27.513			0.0060

Convergence Angle	0	26	42.7322001
Scale Factor	0.999935936		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF I-67 AND HWY 17 IN NEWPORT, HEAD SOUTH ON HWY 17 FOR 1.15 MILES TO COUNTY ROAD 255. HEAD LEFT/EAST ON COUNTY ROAD 255 FOR 0.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 54.6FT SOUTH OF THE CENTER LINE OF COUNTY ROAD 255, AND 81.7FT WEST OF THE CENTER LINE OF COUNTY ROAD 252. THE STATION MARK IS A 2 1/2IN CAP STAMPED "340015A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	261	20.10	65.9
MK # 2				
MK # 3				

AZ Mark Station	340015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARSC, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340016	3/20/2024	ARDOT	JACKSON	42	05X314

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	118,165.9223	0.0010
Easting (M)	485,745.6793	0.0010
Elevation (M)*		
Northing (SFT)	387,682.6967	
Easting (SFT)	1,593,650.6162	
Elevation (SFT)*		

Convergence Angle	0	32	57.3390849	
Scale Factor	0.999941375			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	23	41.1008208	
Longitude	91	3	21.9212100	
Ellipsoid Height (M):	38.825		0.0060	
Geoid Height (M):	-27.400		0.0060	

Location Description

To reach from the intersection of Hwy 42 and Hwy 49 in Hickory Ridge, go West on Hwy 42 for 3.3 miles to Jackson County Road 147. Go West on 147 for 0.3 miles to the station on the Right/North. The station is 16ft North of the center of County Road 147, and 39ft. East of the center of a gravel field road. The station mark is a standard 2 1/2in. aluminium cap stamped "340016 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	340016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARLR, ARWY

Comments

STATIC DERIVED ELEVATION 217.2755 US FT. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB, ARLR & ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340016A	3/20/2024	ARDOT	JACKSON	42	05X314

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	118,558.7116	0.0010
Easting (M)	485,842.3828	0.0010
Elevation (M)*		
Northing (SFT)	388,971.3730	
Easting (SFT)	1,593,967.8842	
Elevation (SFT)*		

Convergence Angle	0	32	59.6559116	
Scale Factor	0.999941174			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	23	53.8159848	
Longitude	91	3	17.9397180	
Ellipsoid Height (M):	38.959	0.0060		
Geoid Height (M):	-27.403	0.0060		

Location Description

To reach from the intersection of Hwy 42 and Hwy 39 in Hickory Ridge, go West on Hwy 42 for 3.3 miles to Jackson Coounty Road 147. The station is 64.4ft South of Hwy 42 and 19.5ft. West of Jackson County Road 147. The station mark is a standard 2 1/2in. aluminium cap stamped "340016A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	58	17.20	56.4
MK # 2				
MK # 3				

AZ Mark Station	340016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARLR, ARWY

Comments

ELEVATION BASED ON DIGITAL LEVELS FROM GPS #340016 WHOSE ELEVATION WAS STATIC DERIVED. ELEVATION FROM LEVELS IS 217.7340 US FT & THE STATIC DERIVED ELEVATION IS 217.7220 US FT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340017	4/1/2024	ARDOT	JACKSON	37	05X312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,510.3864	0.0020
Easting (M)	468,143.1953	0.0020
Elevation (M)*		

Northing (SFT)	513,484.4927	
Easting (SFT)	1,535,899.7999	
Elevation (SFT)*		

Convergence Angle	0	26	18.2001438
Scale Factor	0.999939699		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	44	30.2090820	
Longitude	91	14	47.8458348	
Ellipsoid Height (M):	47.126			0.0110
Geoid Height (M):	-27.727			0.0110

Location Description

To reach from the intersection of Hwy. 37 and Hwy. 367 in Tuckerman, go West on Hwy. 37 for 3.4 miles to the station on the Left/West. The station is 35.0ft West of the centerline of Hwy. 37 and 22.0 ft. North of a gravel farm road. The station mark is a standard 2 1/2 in. aluminium cap stamped "340017 2024" and set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PLASTIC CULVERT UNDER FARM ROAD	111	3.70	12.1
MK # 2				
MK # 3				

AZ Mark Station	340017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARWY

Comments

STATIC DERIVED ELEV. 245.5809 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB & ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
340017A	4/1/2024	ARDOT	JACKSON	37	05X312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,089.5620	0.0020
Easting (M)	468,170.1224	0.0020
Elevation (M)*		
Northing (SFT)	512,103.8380	
Easting (SFT)	1,535,988.1432	
Elevation (SFT)*		

Convergence Angle	0	26	18.7491566	
Scale Factor			0.999939520	
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	44	16.5479748	
Longitude	91	14	46.9023504	
Ellipsoid Height (M):			46.333	0.0110
Geoid Height (M):			-27.721	0.0110

Location Description

To reach from the intersection of Hwy. 37 and Hwy. 367 in Tuckerman, go West on Hwy. 37 for 3.15 miles to the station on the Left/West. The station is 33.6ft West of the centerline of Hwy. 37 and on the East edge of the farm road. The station mark is a standard 2 1/2 in. cap stamped "340017A 2024" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	340017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARWY

Comments

ELEV. OF 242.9599 US FT BASED ON DIGITAL LEVELS FROM STATIC DERIVED ELEV. ON GPS #340017. THE STATIC DERIVED ELEV. OF 242.9598 IS BASED ON HT. CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB & ARWY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350001	6/20/1990	AHTD	JEFFERSON	65	20071,020716

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)
Northing (M)	572,190.1169	0.0030
Easting (M)	403,221.0793	0.0030
Elevation (M)*		
Northing (SFT)	1,877,260.4085	
Easting (SFT)	1,322,901.1577	
Elevation (SFT)*		

Convergence Angle	0	1	10.4376062
Scale Factor			0.999923647
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:	Geoid 18		
Latitude	34	13	8.9285628
Longitude	91	57	54.1490472
Ellipsoid Height (M):	37.352		0.0070
Geoid Height (M):	-25.982		0.0070

Location Description

ON HWY. 65 AT PINE BLUFF, THE STATION IS 71 FEET EAST OF THE CENTERLINE OF THE NORTHBOUND LANES, 4 FEET WEST OF A WITNESS POST, 9 FEET NORTH AND 24 FEET WEST OF A R/W MARKER.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	13	8.9370336
Longitude	91	57	54.1449900
Ellipsoid Height:	36.777		
Grid Northing (Meters)	572,190.3779		
Grid Easting (Meters)	403,221.1830		

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90350002
Geodetic Azimuth	181 21 12
Grid Azimuth	181 21 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARMO, ARPB

Comments

Old point number 90350001
SUPERCEDED GEOID HT. -26.655m
SUPERCEDED AREA REFERENCE MONUMENTS CORPS. OF ENG. 4125
CORPS. OF ENG. 4128 AND CORPS. OF ENG. 3063

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350002	6/20/1990	AHTD	JEFFERSON	65	20071,020716

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	571,820.6026	0.0030
Easting (M)	403,212.3751	0.0030
Elevation (M)*		

Northing (SFT)	1,876,048.0937	
Easting (SFT)	1,322,872.6006	
Elevation (SFT)*		

Convergence Angle	0	1	10.2445156
Scale Factor			0.999923462
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	12	56.9440152
Longitude	91	57	54.4902552
Ellipsoid Height:			36.382
Grid Northing (Meters)			571,820.8639
Grid Easting (Meters)			403,212.4720

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:	Geoid 18			
Latitude	34	12	56.9355372	
Longitude	91	57	54.4940424	
Ellipsoid Height (M):			36.949	0.0070
Geoid Height (M):			-25.979	0.0070

Location Description

ON HWY. 65 AT PINE BLUFF, THE STATION IS 61.5 FEET EAST OF THE CENTERLINE OF THE NORTHBOUND LANES, 6 FEET WEST OF A WITNESS POST, 6.5 FEET WEST OF A R/W FENCE, 7 FEET WEST AND 12 FEET NORTH OF A R/W MARKER.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90350001
Geodetic Azimuth	1 22 12
Grid Azimuth	1 21 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARMO, ARPB

Comments

Old point number 90350002
SUPERCEDED GEOID HT. -26.652m
SUPERCEDED AREA REFERENCE MONUMENTS CORPS. OF ENG. 4125 CORPS. OF ENG. 4128 AND CORPS. OF ENG. 3063

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350003	6/20/1990	AHTD	JEFFERSON	63	20071

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	575,237.9379	
Easting (M)	408,695.1730	
Elevation (M)*		
Northing (SFT)	1,887,259.8013	
Easting (SFT)	1,340,860.7468	
Elevation (SFT)*		

Convergence Angle	0	3	10.2048780
Scale Factor			0.999925301
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	14	47.7374244
Longitude	91	54	20.1607236
Ellipsoid Height (M):	35.856		
Geoid Height (M):	-26.697		

Location Description

AT LOCK AND DAM NO. 4 NEAR THE SOUTHWEST CORNER OF A CONCRETE PARKING LOT, THE STATION IS 7.5 FEET NORTH OF A WITNESS POST AND 2 FEET WEST OF THE EDGE OF THE CONCRETE PARKING LOT.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90350004
Geodetic Azimuth	78 11 32
Grid Azimuth	78 08 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORPS. OF ENG. 4125
Ref Mon # 2	CORPS. OF ENG. 4128
Ref Mon # 3	CORPS. OF ENG. 3063

Comments

Old point number 90350003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350004	6/20/1990	AHTD	JEFFERSON	66	20071

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	575,338.1080	
Easting (M)	409,172.1440	
Elevation (M)*		
Northing (SFT)	1,887,588.4427	
Easting (SFT)	1,342,425.6091	
Elevation (SFT)*		

Convergence Angle	0	3	20.6406319
Scale Factor	0.999925359		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	14	50.9739000	
Longitude	91	54	1.5151500	
Ellipsoid Height (M):	33.855			
Geoid Height (M):	-26.700			

Location Description

AT PINE BLUFF ON THE EAST SIDE OF LOCK AND DAM NO. 4, AT THE CORPS OF ENGINEERS PARK, THE STATION IS WEST OF THE FIRST PARKING AREA AND SOUTH OF THE LOCK BETWEEN TWO PICNIC TABLES.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90350004
Geodetic Azimuth	258 11 43
Grid Azimuth	258 08 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORPS. OF ENG. 4125
Ref Mon # 2	CORPS. OF ENG. 4128
Ref Mon # 3	CORPS. OF ENG. 3063

Comments

Old point number 90350004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350005	6/21/1990	AHTD	JEFFERSON	79	20071

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	583,792.3959	
Easting (M)	412,643.4460	
Elevation (M)*		
Northing (SFT)	1,915,325.5522	
Easting (SFT)	1,353,814.3724	
Elevation (SFT)*		

Convergence Angle	0	4	36.8234794
Scale Factor	0.999931170		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	19	25.2352416	
Longitude	91	51	45.3991680	
Ellipsoid Height (M):	37.138			
Geoid Height (M):	-26.782			

Location Description

NEAR ALTHEIMER ON HWY. 79, THE STATION IS 0.80 MILES NORTHEAST FROM THE JCT. 0F HWY. 79B ON THE LEFT SIDE OF THE HWY., 0.20 MILES FROM STATION 90350006, 24 FEET NORTH OF THE CENTERLINE OF HWY. 79, 45 FEET NORTH OF A PAVED SHOULDER AND 3 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90350006
Geodetic Azimuth	48 27 59
Grid Azimuth	48 23 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORPS. OF ENG. 4125
Ref Mon # 2	CORPS. OF ENG. 4128
Ref Mon # 3	CORPS. OF ENG. 3063

Comments

Old point number 90350005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350006	6/21/1990	AHTD	JEFFERSON	79	20071

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	584,040.5319	
Easting (M)	412,922.8260	
Elevation (M)*		
Northing (SFT)	1,916,139.6451	
Easting (SFT)	1,354,730.9716	
Elevation (SFT)*		

Convergence Angle	0	4	42.9478437
Scale Factor			0.999931367
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	19	33.2763420
Longitude	91	51	34.4567592
Ellipsoid Height (M):	36.703		
Geoid Height (M):	-26.786		

Location Description

NEAR ALTHEIMER ON HWY 79, THE STATION IS 1.00 MILE NORTHEAST FROM THE JCT. 79B, ON THE LEFT SIDE OF THE HWY., 0.20 MILES FROM STATION 90350005, 25 FEET NORTH OF THE CENTERLINE OF HWY. 79, 5 FEET NORTH OF A PAVED SHOULDER AND 3.3 FEET SOUTH OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90350005
Geodetic Azimuth	228 28 05
Grid Azimuth	228 23 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORPS. OF ENG. 4125
Ref Mon # 2	CORPS. OF ENG. 4128
Ref Mon # 3	CORPS. OF ENG. 3063

Comments

Old point number 90350006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350007	3/23/1995	AHTD	JEFFERSON	63	001930, RX0025, 020353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	563,168.7350	
Easting (M)	400,979.1590	
Elevation (M)*	65.238	
Northing (SFT)	1,847,662.7581	
Easting (SFT)	1,315,545.7908	
Elevation (SFT)*	214.034	

Convergence Angle	0	0	21.3914996
Scale Factor	0.999920091		
Elevation Adjust. Factor	0.9999897622		
Combined Adjust. Factor	0.9999098540		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	8	16.1402748
Longitude	91	59	21.7797828
Ellipsoid Height (M):	38.438		
Geoid Height (M):	-25.785		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 4.136 KM (2.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 1.15 METERS WEST OF THE EDGE OF AN ASPHALT PARKING LOT FOR A USED CAR LOT, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY OF 2002.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CORRIGATED METAL PIPE	207	6.70	22.0
MK # 2	TELEPHONE JUNCTION BOX	171	24.20	79.4
MK # 3				

AZ Mark Station	350017
Geodetic Azimuth	189 26 06
Grid Azimuth	189 25 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350007A	3/23/1995	AHTD	JEFFERSON	15	RX0025

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	562,812.6449	
Easting (M)	400,921.0900	
Elevation (M)*	65.409	
Northing (SFT)	1,846,494.4858	
Easting (SFT)	1,315,355.2761	
Elevation (SFT)*	214.596	

Convergence Angle	0	0	20.1221191
Scale Factor	0.999919992		
Elevation Adjust. Factor	0.9999897353		
Combined Adjust. Factor	0.9999097281		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	8	4.5828492
Longitude	91	59	24.0477864
Ellipsoid Height (M):	38.808		
Geoid Height (M):	-26.601		

Location Description

FROM THE JCT. OF HWY. 15 AND HWY. 65 IN PINE BLUFF, GO SOUTH ON HWY. 15 FOR 6.61 KM (4.11 MILES) TO A NEW BRIDGE OVER BAYOU BARTHOLOMEW, CONTINUE AHEAD ON HWY. 15 FOR 5.18 KM (3.22 MILES) TO THE STATION ON THE RIGHT JUST NORTHEAST OF "J&B LIQUOR STORE". THE STATION IS 10.90 METERS WEST OF THE CENTER OF HWY. 15, 5.30 METERS NORTH OF THE EDGE OF AN ASPHALT PARKING LOT AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	285	1.50	4.9
MK # 2	NORTHEAST CORNER OF BUILDING	215	17.50	57.4
MK # 3	16" CONCRETE CULVERT	150	4.50	14.8

AZ Mark Station	350007
Geodetic Azimuth	9 17 56.96996
Grid Azimuth	9 17 36.84950

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY
Ref Mon # 2	93400004 AHTD
Ref Mon # 3	GLEN LAKE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350010	4/17/1995	AHTD	JEFFERSON	N/A	R20051

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	568,402.1710	
Easting (M)	395,412.5040	
Elevation (M)*	66.200	
Northing (SFT)	1,864,832.7894	
Easting (SFT)	1,297,282.5235	
Elevation (SFT)*	217.191	

Convergence Angle	0	1	40.2777283
Scale Factor	0.999921909		
Elevation Adjust. Factor	0.9999896112		
Combined Adjust. Factor	0.9999115210		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	11	5.9665128
Longitude	92	2	59.1663336
Ellipsoid Height (M):	39.584		
Geoid Height (M):	-26.616		

Location Description

FROM THE JCT. OF HWY. 79 (CAMDEN ROAD) AND 28TH STREET, GO SOUTH ON HWY. 79 FOR 1.44 KM (0.90 MILES) TO THE JCT. WITH THE NEW HWY. 65 BYPASS THAT IS UNDER CONSTRUCTION AT THIS TIME, TURN LEFT (EAST) ON THE BYPASS AND GO 1.40KM (0.87 MILES) TO THE STATION ON THE RIGHT NEAR A RAILROAD BRIDGE (NO. 6263B) OVER NEVINS CREEK. THE STATION IS 8.0 METERS WEST OF THE WEST RAIL OF A RAILROAD TRACK, 23.4 METERS NORTHWEST OF THE NORTHWEST END OF THE RAILROAD BRIDGE AND 1.00 METERS NORTH OF A WITNESS POST SET BY A GUY WIRE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350010" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	10" PINE TREE		20.60	67.6
MK # 2	GUY POLE		4.55	14.9
MK # 3	NONE			

AZ Mark Station	350010A
Geodetic Azimuth	313 18 19.14554
Grid Azimuth	313 19 59.40178

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINE BLUFF
Ref Mon # 2	130008 AHTD
Ref Mon # 3	GLEN LAKE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350010A	4/17/1995	AHTD	JEFFERSON	N/A	R20051

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	568,874.3210	
Easting (M)	394,912.0520	
Elevation (M)*	71.911	
Northing (SFT)	1,866,381.8348	
Easting (SFT)	1,295,640.6239	
Elevation (SFT)*	235.928	

Convergence Angle	0	1	51.2226339
Scale Factor	0.999922106		
Elevation Adjust. Factor	0.9999887149		
Combined Adjust. Factor	0.9999108218		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	11	21.2825976
Longitude	92	3	18.7216092
Ellipsoid Height (M):	45.293		
Geoid Height (M):	-26.618		

Location Description

FROM THE JCT. OF HWY. 79 (CAMDEN ROAD) AND 28TH STREET IN PINE BLUFF, GO SOUTH ON HWY. 79 FOR 1.44 KM (0.90 MILES) TO THE JCT. WITH THE NEW HWY. 65 BYPASS THAT IS CURRENTLY UNDER CONSTRUCTION, TURN LEFT ON THE NEW BYPASS AND GO EAST FOR 0.72 KM (0.45 MILES) TO THE STATION ON THE RIGHT AT THE TOP OF THE BACK SLOPE OF THE ROAD DITCH ON AN OLD ASPHALT DRIVE. THE STATION IS 6.45 METERS NORTHEAST OF A WOODEN BRACE POST, 31.0 METERS NORTHWEST OF A CROSSTIE GATE POST AND 5.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350010A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	4" WOODEN BRACE POST		6.45	21.2
MK # 2	CROSSTIE GATE POST		31.00	101.7
MK # 3	POWER POLE		5.65	18.5

AZ Mark Station	350010
Geodetic Azimuth	133 18 08.15747
Grid Azimuth	133 19 59.40178

Area Reference Monuments (used for Processing)

Ref Mon # 1	GLEN LAKE
Ref Mon # 2	130008 AHTD
Ref Mon # 3	PINE BLUFF

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350011	4/17/1995	AHTD	JEFFERSON	N/A	R20051

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	568,143.9819
Easting (M)	396,378.5130
Elevation (M)*	65.072
Northing (SFT)	1,863,985.7140
Easting (SFT)	1,300,451.8381
Elevation (SFT)*	213.490
Convergence Angle	0 1 19.1596468
Scale Factor	0.999921804
Elevation Adjust. Factor	0.9999897882
Combined Adjust. Factor	0.9999115930

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 10 57.6001884
Longitude	92 2 21.4346328
Ellipsoid Height (M):	38.542
Geoid Height (M):	-26.616

Location Description

FROM THE JCT. OF HWY. 15 (OLIVE ST.) AND 27TH STREET IN PINE BLUFF, GO WEST ON 27TH STREET FOR 1.609 KM (1.0 MILES) TO THE JCT. OF 27TH AND HAZEL STREETS, TURN LEFT AND SOUTH ON HAZEL STREET AND GO 0.43 KM (0.27 MILES) TO A JCT. WITH 31ST STREET, TURN RIGHT AND WEST ON 31ST STREET AND GO 0.48 KM (0.30 MILES) TO THE JCT. WITH "OLD WARREN ROAD", BEAR LEFT ON "OLD WARREN ROAD" AND GO 1.93 KM (1.20 MILES) TO THE STATION ON THE LEFT AT THE SOUTH EAST CORNER OF A BRIDGE OVER BAYOU BARTHOLOMEW. THE STATION IS 3.65 METERS SOUTHEAST OF THE BRIDGE END, 10.3 METERS EAST OF THE CENTER OF "OLD WARREN ROAD" AND 13.3 METERS SOUTHWEST OF A FENCE CORNER. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350011" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER		13.30	43.6
MK # 2	BRIDGE END		3.65	12.0
MK # 3	7TH GUARD RAIL POST FROM BRIDGE END		1.70	5.6

AZ Mark Station	350011A
Geodetic Azimuth	228 23 47.28889
Grid Azimuth	228 25 06.43734

Area Reference Monuments (used for Processing)

Ref Mon # 1	GLEN LAKE
Ref Mon # 2	130008 AHTD
Ref Mon # 3	PINE BLUFF

Comments

NGVD29 = 65.158 meters

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350011A	4/17/1995	AHTD	JEFFERSON	I530	R20051

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	567,905.4859	
Easting (M)	396,109.7150	
Elevation (M)*	69.463	
Northing (SFT)	1,863,203.2483	
Easting (SFT)	1,299,569.9566	
Elevation (SFT)*	227.897	

Convergence Angle	0	1	25.0329723
Scale Factor	0.999921708		
Elevation Adjust. Factor	0.9999890991		
Combined Adjust. Factor	0.9999108080		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	10	49.8559224
Longitude	92	2	31.9285104
Ellipsoid Height (M):	42.934		
Geoid Height (M):	-26.615		

Location Description

FROM THE JCT. OF HWY. 15 (OLIVE STREET) AND 27TH STREET IN PINE BLUFF, GO WEST ON 27TH STREET FOR 1.609 KM (1.0 MILES) TO THE JCT. WITH HAZEL STREET, TURN LEFT AND SOUTH ON HAZEL STREET AND GO 0.43 KM (0.27 MILES) TO THE JCT. WITH 31TH STREET, GO RIGHT AND WEST ON 31TH STREET FOR 0.48 KM (0.30 MILES) TO THE JCT. WITH "OLD WARREN ROAD", BEAR LEFT AND SOUTH ON "OLD WARREN ROAD" AND GO 2.28 KM (1.42 MILES) TO THE STATION ON THE LEFT AT THE JUNCTION OF "BOBO ROAD" AND "OLD WARREN ROAD". THE STATION IS 13.3 METERS NORTH OF THE CENTER OF "BOBO ROAD", 19.3 METERS WEST OF THE CENTER OF "OLD WARREN ROAD" AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350011A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE		23.50	77.1
MK # 2	CONCRETE PIPE		8.90	29.2
MK # 3	NONE			

AZ Mark Station	350011
Geodetic Azimuth	48 23 41.39324
Grid Azimuth	48 25 06.43734

Area Reference Monuments (used for Processing)

Ref Mon # 1	GLEN LAKE
Ref Mon # 2	130008 AHTD
Ref Mon # 3	PINE BLUFF

Comments

NGVD29 = 69.549 meters

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350012	7/19/1995	AHTD	JEFFERSON	65	R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	559,948.2149	
Easting (M)	422,544.1750	
Elevation (M)*	57.504	
Northing (SFT)	1,837,096.7684	
Easting (SFT)	1,386,297.0141	
Elevation (SFT)*	188.661	

Convergence Angle	0	8	12.3494196
Scale Factor	0.999919303		
Elevation Adjust. Factor	0.9999909758		
Combined Adjust. Factor	0.9999102796		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	30.7399428
Longitude	91	45	20.3187204
Ellipsoid Height (M):	30.834		
Geoid Height (M):	-26.670		

Location Description

FROM THE POST OFFICE IN THE SMALL VILLAGE OF GRADY, GO NORTH ON HWY. 65 FOR 3.058 KM (1.90 MILES) TO THE LINCOLN-JEFFERSON COUNTY LINE, CONTINUE NORTH ON HWY. 65 FOR 3.219 KM (2.0 MILES) TO THE STATION ON THE LEFT JUST BEFORE REACHING THE TAMO WATER TOWER. THE STATION IS 29.70 METERS EAST OF THE EASTERN MOSTRAIL OF THE MISSOURI PACIFIC RAILROAD, 17.50 METERS WEST OF THE CENTER OF HWY. 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350012 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.20 METERS BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	350012A
Geodetic Azimuth	325 09 36.01803
Grid Azimuth	325 01 23.65860

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "W 289 1984".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350012A	7/19/1995	AHTD	JEFFERSON	65	R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	560,616.5040	
Easting (M)	422,076.6380	
Elevation (M)*	58.025	
Northing (SFT)	1,839,289.3135	
Easting (SFT)	1,384,763.1032	
Elevation (SFT)*	190.370	

Convergence Angle	0	8	2.1728849
Scale Factor	0.999919444		
Elevation Adjust. Factor	0.9999908941		
Combined Adjust. Factor	0.9999103388		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	52.4664900
Longitude	91	45	38.5011468
Ellipsoid Height (M):	31.341		
Geoid Height (M):	-26.684		

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF GRADY, GO NORTH ON HWY. 65 FOR 3.058 KM (1.90 MILES) TO THE LINCOLN-JEFFERSON COUNTY LINE, CONTINUE NORTH ON HWY. 65 FOR 4.023 KM (2.50 MILES) TO THE STATION ON THE RIGHT JUST PAST THE "TAMO RIVER ROAD". THE STATION IS 17.10 METERS NORTHEAST OF THE CENTER OF HWY. 65, 16.80 METERS SOUTHEAST OF NOAA BENCH MARK "W 289 1984", 10.0 METERS WEST OF THE CENTER OF "TAMO RIVER ROAD" AND 1.35 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "350012A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" METAL PIPE	160	15.20	49.9
MK # 2	POWER POLE	327	16.50	54.1
MK # 3	NONE			

AZ Mark Station	350012
Geodetic Azimuth	145 09 25.82122
Grid Azimuth	145 01 23.65860

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS FROM STATION "W 289 1984".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350013	5/29/1996	AHTD	JEFFERSON	425	R20149

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	562,998.9205	
Easting (M)	408,852.9964	
Elevation (M)*	60.402	
Northing (SFT)	1,847,105.6250	
Easting (SFT)	1,341,378.5390	
Elevation (SFT)*	198.169	

Convergence Angle	0	3	13.4061901
Scale Factor	0.999920043		
Elevation Adjust. Factor	0.9999905210		
Combined Adjust. Factor	0.9999105648		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	8	10.4955396
Longitude	91	54	14.4409356
Ellipsoid Height (M):	33.691		
Geoid Height (M):	-26.625		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM. (4.30 MI.) EAST OF PINE BLUFF, GO SOUTH ON HWY-425 FOR 7.08 KM. (4.40 MI.) TO THE STATION ON THE RIGHT. 14.10 METERS SOUTH-SOUTHWEST OF THE CENTER OF HWY-425 AND 0.50 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350013 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	156	18.65	61.2
MK # 2				
MK # 3				

AZ Mark Station	350013A
Geodetic Azimuth	311 42 06.1215
Grid Azimuth	311 38 52.7029

Area Reference Monuments (used for Processing)

Ref Mon # 1	DIST2
Ref Mon # 2	GLEN LAKE 1940
Ref Mon # 3	93400003

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350013A	5/29/1996	AHTD	JEFFERSON	425	R20149

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	563,377.2799	
Easting (M)	408,427.5580	
Elevation (M)*	60.386	
Northing (SFT)	1,848,346.9591	
Easting (SFT)	1,339,982.7465	
Elevation (SFT)*	198.116	

Convergence Angle	0	3	4.1192721
Scale Factor	0.999920150		
Elevation Adjust. Factor	0.9999905236		
Combined Adjust. Factor	0.9999106743		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	8	22.7885784
Longitude	91	54	31.0338828
Ellipsoid Height (M):	33.679		
Geoid Height (M):	-26.625		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM. (4.30 MI.) EAST OF PINE BLUFF, GO SOUTH ON HWY-425 FOR 6.52 KM. (4.05 MI.) TO THE STATION ON THE RIGHT JUST PAST A PAVED ROAD RIGHT. 15.55 METERS SOUTHWEST OF THE CENTER OF HWY-425 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350013A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	292	36.45	119.6
MK # 2	CENTER OF CONCRETE HEADWALL	332	43.33	142.2
MK # 3				

AZ Mark Station	350013
Geodetic Azimuth	131 41 56.8097
Grid Azimuth	131 38 52.7029

Area Reference Monuments (used for Processing)

Ref Mon # 1	DIST2
Ref Mon # 2	GLEN LAKE 1940
Ref Mon # 3	93400003

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350014	10/26/1998	AHTD	JEFFERSON	79	2807

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	581,131.7529	
Easting (M)	401,659.2300	
Elevation (M)*	64.825	
Northing (SFT)	1,906,596.4260	
Easting (SFT)	1,317,776.9904	
Elevation (SFT)*	212.680	

Convergence Angle	0	0	36.3179801
Scale Factor	0.999929156		
Elevation Adjust. Factor	0.9999898269		
Combined Adjust. Factor	0.9999189837		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	17	59.1527184
Longitude	91	58	55.1106228
Ellipsoid Height (M):	38.890		
Geoid Height (M):	-25.935		

Location Description

TO REACH THE STATION FROM THE NORTHEAST END OF THE U.S. HIGHWAY 79 BRIDGE OVER THE ARKANSAS RIVER, LOCATED ABOUT 3.00 KM (1.86 MI) NORTH OF PINE BLUFF, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 1.38 KM (0.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.63 METERS WEST OF THE CENTER OF GRAVEL FIELD ENTRANCE, 21.05 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 63mm CAP STAMPED "350014 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF CONCRETE HEADWALL	69	22.36	73.4
MK # 2	WEST END OF CMP	58	34.00	111.5
MK # 3				

AZ Mark Station	350014A
Geodetic Azimuth	239 47 55.04580
Grid Azimuth	239 47 18.69594

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1
Ref Mon # 2	ALMYPORT AZ MK
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350014A	10/26/1998	AHTD	JEFFERSON	79	2807

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	580,883.2999
Easting (M)	401,232.5420
Elevation (M)*	65.141
Northing (SFT)	1,905,781.2931
Easting (SFT)	1,316,377.0982
Elevation (SFT)*	213.717

Convergence Angle	0	0	26.9777280
Scale Factor			0.999928977
Elevation Adjust. Factor			0.9999897774
Combined Adjust. Factor			0.9999187551

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	17	51.0910908
Longitude	91	59	11.7988620
Ellipsoid Height (M):	39.209		
Geoid Height (M):	-25.932		

Location Description

TO REACH THE STATION FROM THE NORTHEAST END OF THE U.S. HIGHWAY 79 BRIDGE OVER THE ARKANSAS RIVER, LOCATED ABOUT 3.00 KM (1.86 MI) NORTH OF PINE BLUFF, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.72 METERS NORTHWEST OF A GUARD RAIL SET IN THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350014A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	350014
Geodetic Azimuth	59 47 45.641875
Grid Azimuth	59 47 18.695941

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1
Ref Mon # 2	ALMYPORT AZ MK
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350015	1/16/2002	AHTD	JEFFERSON	N/A	001930, 020353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	559,680.5450	
Easting (M)	403,382.4030	
Elevation (M)*	60.318	
Northing (SFT)	1,836,218.5881	
Easting (SFT)	1,323,430.4338	
Elevation (SFT)*	197.893	

Convergence Angle	0	1	13.8674205
Scale Factor	0.999919255		
Elevation Adjust. Factor	0.9999905342		
Combined Adjust. Factor	0.9999097900		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	22.9057740
Longitude	91	57	48.0209940
Ellipsoid Height (M):	33.607		
Geoid Height (M):	-25.761		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 3.042 KM (1.89 MI) TO THE JUNCTION OF PINEBERGEN ROAD AND GIBB ANDERSON ROAD AND THE STATION DIRECTLY IN FRONT OF YOUR LINE OF TRAVEL. THE STATION IS 7.00 METERS NORTHEAST OF THE CENTER OF GIBB ANDERSON ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 350015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	350015A
Geodetic Azimuth	139 55 19
Grid Azimuth	139 54 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350016A	1/16/2002	AHTD	JEFFERSON	63	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	557,476.2890
Easting (M)	399,707.3100
Elevation (M)*	
Northing (SFT)	1,828,986.7915
Easting (SFT)	1,311,373.0662
Elevation (SFT)*	

Convergence Angle	0	0	6.3904905
Scale Factor			0.999918881
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	5	11.3812116
Longitude	92	0	11.4178968
Ellipsoid Height (M):	48.753		
Geoid Height (M):	-25.750		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 54 EAST, LOCATED ABOUT 9.656 KM (6.00 MI) SOUTH OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 0.66 KM (0.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.65 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 63 AND 1.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	247	19.10	62.7
MK # 2	POWER POLE	239	15.30	50.2
MK # 3				

AZ Mark Station	350016
Geodetic Azimuth	71 26 27
Grid Azimuth	71 26 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350017	1/16/2002	AHTD	JEFFERSON	63	001930

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	562,570.2620	
Easting (M)	400,879.7690	
Elevation (M)*		
Northing (SFT)	1,845,699.2679	
Easting (SFT)	1,315,219.7088	
Elevation (SFT)*		

Convergence Angle	0	0	19.2189281
Scale Factor	0.999919927		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	7	56.7159492
Longitude	91	59	25.6615188
Ellipsoid Height (M):	37.864		
Geoid Height (M):	-25.780		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 4.748 KM (2.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 3.55 METERS WEST OF THE EDGE OF A CONCRETE DITCH, 1.58 METERS SOUTH OF THE EDGE OF A CONCRETE DRAIN RAMP, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	209	21.60	70.9
MK # 2				
MK # 3				

AZ Mark Station	350007
Geodetic Azimuth	9 26 04
Grid Azimuth	9 25 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350018	1/16/2002	AHTD	JEFFERSON	I 530	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	567,487.7240	
Easting (M)	401,072.8190	
Elevation (M)*		
Northing (SFT)	1,861,832.6412	
Easting (SFT)	1,315,853.0737	
Elevation (SFT)*		

Convergence Angle	0	0	23.4483985
Scale Factor			0.999921543
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	10	36.3207864
Longitude	91	59	18.1047192
Ellipsoid Height (M):	41.399		
Geoid Height (M):	-25.820		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF GO SOUTH ON I 530 FOR 1.93 KM (1.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS SOUTHEAST OF THE OHIO STREET OVERPASS NORTH BOUND BRIDGE END, 2.68 METERS NORTHWEST OF THE OHIO STREET OVERPASS SOUTH BOUND BRIDGE END, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350018 2002" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POST	122	2.66	8.7
MK # 2	PUNCH MARK IN METAL GUARD RAIL POST	164	3.70	12.1
MK # 3	PUNCH MARK IN METAL GUARD RAIL POST	193	7.70	25.3

AZ Mark Station	350018A
Geodetic Azimuth	224 40 53
Grid Azimuth	224 40 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350018A	1/16/2002	AHTD	JEFFERSON	I 530	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	567,069.5869	
Easting (M)	400,659.4020	
Elevation (M)*		
Northing (SFT)	1,860,460.8030	
Easting (SFT)	1,314,496.7214	
Elevation (SFT)*		

Convergence Angle	0	0	14.4117838
Scale Factor			0.999921383
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	10	22.7506476
Longitude	91	59	34.2504492
Ellipsoid Height (M):	36.123		
Geoid Height (M):	-25.815		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON I 530 FOR 1.30 KM (0.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.35 METERS NORTH OF THE NORTH EDGE OF THE SOUTH BOUND I 530 LANE, 7.34 METERS SOUTH OF THE SOUTH EDGE OF THE NORTH BOUND I 530 LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "350018A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	350018
Geodetic Azimuth	44 40 44
Grid Azimuth	44 40 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350019	1/16/2003	AHTD	JEFFERSON	256	020048

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	600,104.5739
Easting (M)	394,938.0620
Elevation (M)*	
Northing (SFT)	1,968,843.0895
Easting (SFT)	1,295,725.9584
Elevation (SFT)*	
Convergence Angle	0 1 51.0215120
Scale Factor	0.999947392
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	28	14.8782720
Longitude	92	3	18.3622644
Ellipsoid Height (M):	42.102		
Geoid Height (M):	-26.065		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 256 AND THE JEFFERSON LONOKE COUNTY LINE, SOUTH OF ENGLAND, GO WEST ON HIGHWAY 256 4.20 MILES TO THE STATION ON THE RIGHT, 8.20 METERS NORTH OF THE CENTER OIF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350019 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	91	8.00	26.2
MK # 2				
MK # 3				

AZ Mark Station	350019A
Geodetic Azimuth	188 40 35
Grid Azimuth	188 42 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, AHTD MON 1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	480016

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350019A	1/16/2003	AHTD	JEFFERSON	256	020048

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	599,570.2908
Easting (M)	394,856.2360
Elevation (M)*	
Northing (SFT)	1,967,090.1957
Easting (SFT)	1,295,457.5009
Elevation (SFT)*	

Convergence Angle	0	1	52.8097620
Scale Factor			0.999946757
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	27	57.5370180
Longitude	92	3	21.5573328
Ellipsoid Height (M):	43.091		
Geoid Height (M):	-26.059		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 256 AND THE JEFFERSON LONOKE COUNTY LINE, SOUTH OF ENGLAND, GO WEST ON HIGHWAY 256 4.55 MILES TO THE STATION ON THE LEFT, EAST 9.10 METERS OF THE CENTER OF THE HIGHWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350019A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	192	2.40	7.9
MK # 2	POWER POLE	267	14.80	48.6
MK # 3				

AZ Mark Station	350019
Geodetic Azimuth	8 40 33
Grid Azimuth	8 42 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, AHTD MON 1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	480016

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350020	1/16/2003	AHTD	JEFFERSON	31	020047

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	593,609.8449
Easting (M)	409,438.2440
Elevation (M)*	
Northing (SFT)	1,947,534.9661
Easting (SFT)	1,343,298.6389
Elevation (SFT)*	

Convergence Angle	0	3	26.8624180
Scale Factor	0.999940143		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	24	43.9849656
Longitude	91	53	50.3986776
Ellipsoid Height (M):	38.574		
Geoid Height (M):	-26.078		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 15 AND HIGHWAY 31, NORTH EAST OF SHERRILL, GO NORTH ON HIGHWAY 31 4.05 MILES TO THE STATION ON THE LEFT, 10.60 METERS WEST OF THE CENTER OF THE HIGHWAY, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350020 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN WITH THE GROUND

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	350020A
Geodetic Azimuth	16 58 20
Grid Azimuth	16 54 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	480016
Ref Mon # 3	AHTD LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350020A	1/16/2003	AHTD	JEFFERSON	31	020047

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	594,156.3599	
Easting (M)	409,604.4430	
Elevation (M)*		
Northing (SFT)	1,949,327.9908	
Easting (SFT)	1,343,843.9101	
Elevation (SFT)*		

Convergence Angle	0	3	30.5173012
Scale Factor			0.999940712
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	25	1.7165676
Longitude	91	53	43.8684936
Ellipsoid Height (M):	38.450		
Geoid Height (M):	-26.085		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 15 SOUTH AND HIGHWAY 31 SOUTH, NORTH EAST OF SHERRILL, GO NORTH ON HIGHWAY 31 4.40 MILES TO THE STATION ON THE LEFT, 6.0 METERS NORTH OF A FIELD TURN IN AND 0.50 EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350020A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	234	26.70	87.6
MK # 2				
MK # 3				

AZ Mark Station	350020
Geodetic Azimuth	196 58 24
Grid Azimuth	196 54 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	480016
Ref Mon # 3	AHTD LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350021	1/16/2003	AHTD	JEFFERSON	79B	020384

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	583,219.8469	
Easting (M)	409,940.0290	
Elevation (M)*		
Northing (SFT)	1,913,447.1144	
Easting (SFT)	1,344,944.9118	
Elevation (SFT)*		

Convergence Angle	0	3	37.6200077
Scale Factor			0.999930723
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	19	6.7579572	
Longitude	91	53	31.1780796	
Ellipsoid Height (M):	38.604			
Geoid Height (M):	-25.983			

Location Description

TO REACH THE STATION: THE STATION IS IN THE MEDIAN AT THE INTERSECTIONS OF U.S. STATE HIGHWAY 79B AND HIGHWAY 15 NORTH WEST OF ALTHEMER, ACROSS THE ROAD (SOUTH) FROM THE TRAVLERS REST M. B. CHURCH, NORTH 19.40 METERS OF THE CENTER OF 79B AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	HEADWALL	244	21.55	70.7
MK # 2	TELEPHONE RISER	40	26.45	86.8
MK # 3				

AZ Mark Station	350021A
Geodetic Azimuth	93 09 30
Grid Azimuth	93 05 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, AHTD HOPE 1
Ref Mon # 2	480016
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350021A	1/16/2003	AHTD	JEFFERSON	79B	020384

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	583,183.7819
Easting (M)	410,606.4220
Elevation (M)*	
Northing (SFT)	1,913,328.7911
Easting (SFT)	1,347,131.2362
Elevation (SFT)*	
Convergence Angle	0 3 52.2086481
Scale Factor	0.999930695
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	19	5.5638624
Longitude	91	53	5.1125388
Ellipsoid Height (M):	38.067		
Geoid Height (M):	-25.986		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 79B AND HIGHWAY 15 NORTH, WEST OF ALTHEMER, GO NORTH ON 79B 0.40 MILES TO THE STATION ON THE RIGHT, SOUTH 17.0 METERS OF THE CENTER OF THE HIGHWAY, 24.10 METERS WEST OF A GRAVEL DRIVE AND 0.50 NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "350021A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	UNDER GROUND CABLE MARKER	231	1.40	4.6
MK # 2				
MK # 3				

AZ Mark Station	350021
Geodetic Azimuth	273 09 45
Grid Azimuth	273 05 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC, AHTD HOPE 1
Ref Mon # 2	480016
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350022	1/22/2003	AHTD	JEFFERSON	79	001942

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	563,283.8990	
Easting (M)	389,721.1540	
Elevation (M)*		
Northing (SFT)	1,848,040.5920	
Easting (SFT)	1,278,610.1527	
Elevation (SFT)*		

Convergence Angle	0	3	44.5626416
Scale Factor			0.999920123
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	8	19.6981908
Longitude	92	6	41.2263324
Ellipsoid Height (M):	55.595		
Geoid Height (M):	-25.771		

Location Description

TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO NORTH ON U.S. HIGHWAY 79 FOR 7.27 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "350021 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PIPE SIGN POST FOR BBQ HUT	58	22.20	72.8
MK # 2	CORRIGATED METAL PIPE	224	12.40	40.7
MK # 3				

AZ Mark Station	350021A
Geodetic Azimuth	224 44 48
Grid Azimuth	224 48 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	480016
Ref Mon # 3	AHTD MON 1

Comments

NOTE ####### CAP IS STAMPED 350021

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350022A	1/22/2003	AHTD	JEFFERSON	79	001942

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	562,895.5209	
Easting (M)	389,335.3550	
Elevation (M)*		
Northing (SFT)	1,846,766.3882	
Easting (SFT)	1,277,344.4105	
Elevation (SFT)*		

Convergence Angle	0	3	52.9816271
Scale Factor	0.999920013		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	8	7.0787256
Longitude	92	6	56.2685436
Ellipsoid Height (M):	61.896		
Geoid Height (M):	-25.771		

Location Description

TO REACH THE STATION FROM THE CLEVELAND / JEFFERSON COUNTY LINE LOCATED SOUTH OF PINE BLUFF, GO NORTH ON U.S. HIGHWAY 79 FOR 6.91 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.50 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "350021A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	58	16.70	54.8
MK # 2	COMBINATION POLE	209	24.75	81.2
MK # 3				

AZ Mark Station	350021
Geodetic Azimuth	44 44 40
Grid Azimuth	44 48 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE 1
Ref Mon # 2	480016
Ref Mon # 3	AHTD MON 1

Comments

NOTE ####### CAP IS STAMPED 350021A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350023	7/18/2006	AHTD	JEFFERSON	79B	20070, 020495.020588,02062

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	573,583.7409	
Easting (M)	398,212.7760	
Elevation (M)*	67.749	0.0000
Northing (SFT)	1,881,832.6566	
Easting (SFT)	1,306,469.7493	
Elevation (SFT)*	222.273	

Convergence Angle	0	0	39.0882616
Scale Factor			0.999924376
Elevation Adjust. Factor			0.9999893681
Combined Adjust. Factor			0.9999137449

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	13	54.1729344
Longitude	92	1	9.8390424
Ellipsoid Height:			41.995
Grid Northing (Meters)			573,583.7409
Grid Easting (Meters)			398,212.7760

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	13	54.1729344
Longitude	92	1	9.8390424
Ellipsoid Height (M):	41.995		
Geoid Height (M):	-25.864		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65B AND STATE HIGHWAY 79B, IN PINE BLUFF, GO NORTH ON HIGHWAY 79B 0.10 MILES TO THE STATION MARK ON THE RIGHT, WEST OF A CEMETARY FENCE, EAST 89.90 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 8.10 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 1 1/2 INCH CAP STAMPED "350023 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE WITH GUY	274	9.97	32.7
MK # 2	WATER SPIGOT	35	4.97	16.3
MK # 3	CHAINLINK FENCE CORNER	139	3.47	11.4

AZ Mark Station	350023A
Geodetic Azimuth	0 43 46
Grid Azimuth	0 44 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	ARLR

Comments

3-wire levels ran by crew S5101 from 1st Order NGS marks S 288 & T288 in September 07. ********* Elevation updated from 222.260' to 222.273' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288during job 020588.********** Position updated durin 020588 using static GPS constraining the ortho. Ht at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350023A	7/18/2006	AHTD	JEFFERSON	79B	020070, 020495,020588

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	574,218.4529	
Easting (M)	398,220.9760	
Elevation (M)*	67.045	0.0024
Northing (SFT)	1,883,915.0409	
Easting (SFT)	1,306,496.6521	
Elevation (SFT)*	219.963	

Convergence Angle	0	0	38.9115379
Scale Factor			0.999924724
Elevation Adjust. Factor			0.9999894786
Combined Adjust. Factor			0.9999142034

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	14	14.7734088
Longitude	92	1	9.5232900
Ellipsoid Height (M):	41.293		
Geoid Height (M):	-25.869		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65B AND STATE HIGHWAY 79B, IN PINE BLUFF, GO NORTH ON HIGHWAY 79B 0.50 MILES TO THE STATION MARK ON THE LEFT, NORTH OF THE TOP BANK OF A DRAINAGE DITCH, WEST 78.40 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 50.70 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 1 1/2 INCH CAP STAMPED "350023A 2006" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	63	26.30	86.3
MK # 2	CHAINLINK FENCE CORNER	343	6.43	21.1
MK # 3	COMBINATION POLE WITH LIGHT	172	28.59	93.8

AZ Mark Station	350023
Geodetic Azimuth	180 43 46
Grid Azimuth	180 44 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	K 124, J 112
Ref Mon # 3	ALMYPORT

Comments

3-wire levels ran by crew S5101 from 1st Order NGS marks S 288 & T288 in September 07. ********* Elevation updated from 219.975' to 219.963' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288during job 020588.********** Position updated durin 020588 using static GPS constraining the ortho. Ht at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350024	8/30/2006	AHTD	JEFFERSON	270	020445, 020626

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	579,824.8377	0.0020
Easting (M)	384,782.6896	0.0020
Elevation (M)*	105.691	
Northing (SFT)	1,902,308.6550	
Easting (SFT)	1,262,407.8741	
Elevation (SFT)*	346.754	

Convergence Angle	0	5	33.0369220
Scale Factor			0.999928219
Elevation Adjust. Factor			0.9999834140
Combined Adjust. Factor			0.9999116341

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	17	16.3415940
Longitude	92	9	55.0372824
Ellipsoid Height:			79.867
Grid Northing (Meters)			579,824.8359
Grid Easting (Meters)			384,782.6940

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	17	16.3416516	
Longitude	92	9	55.0374552	
Ellipsoid Height (M):			79.677	0.0040
Geoid Height (M):			-26.007	0.0030

Location Description

TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, WEST OF WHITE HALL, GO EAST ON HIGHWAY 270 FROM THE COUNTY LINE 2.9 MILES TO THE STATION MARK ON THE RIGHT, EAST 71.3 FEET OF THE CENTERLINE OF A GRAVEL DRIVEAND SOUTH 53.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350024 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	296	28.62	93.9
MK # 2				
MK # 3				

AZ Mark Station	350024A
Geodetic Azimuth	115 30 31
Grid Azimuth	115 36 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (ARCM, ARLR)
Ref Mon # 2	ARLR (CSAL)
Ref Mon # 3	ARPB (K 124)

Comments

Old elev. 105.668m based on 3-Wire levels ran by S5102 in Jan 08 in Job 020445.
**********UPDATED 11/2016**********
ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350024A	8/30/2006	AHTD	JEFFERSON	270	020445, 020626

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	579,608.7485	0.0020
Easting (M)	385,233.6976	0.0020
Elevation (M)*	105.927	
Northing (SFT)	1,901,599.7024	
Easting (SFT)	1,263,887.5562	
Elevation (SFT)*	347.529	

Convergence Angle	0	5	23.1590378
Scale Factor			0.999928070
Elevation Adjust. Factor			0.9999833769
Combined Adjust. Factor			0.9999114481

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	17	9.3512220
Longitude	92	9	37.3884156
Ellipsoid Height:			80.095
Grid Northing (Meters)			579,608.7379
Grid Easting (Meters)			385,233.7030

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	17	9.3515676	
Longitude	92	9	37.3886280	
Ellipsoid Height (M):			79.914	0.0040
Geoid Height (M):			-26.006	0.0029

Location Description

TO REACH THE STATION MARK FROM THE JEFFERSON AND GRANT COUNTY LINE AND STATE HIGHWAY 270, WEST OF WHITE HALL, GO EAST ON HIGHWAY 270 FROM THE COUNTY LINE 3.3 MILES TO THE STATION MARK ON THE LEFT, AND NORTH 54.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 4.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350024A 2006" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	97	4.67	15.3
MK # 2	SERVICE POLE WITH GUY	6	13.17	43.2
MK # 3				

AZ Mark Station	350024
Geodetic Azimuth	295 30 41
Grid Azimuth	295 36 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (ARCM, ARLR)
Ref Mon # 2	ARLR (CSAL)
Ref Mon # 3	ARPB (K 124)

Comments

Original Elevation 105.9051m based on 3-Wire levels ran by S5102 in Jan 08 in Job 020445.
**********UPDATED 11/2016**********
ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350025	8/30/2006	AHTD	JEFFERSON	530	020445, 020626

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	576,848.4422	0.0020
Easting (M)	390,403.7869	0.0020
Elevation (M)*	97.198	
Northing (SFT)	1,892,543.5975	
Easting (SFT)	1,280,849.7575	
Elevation (SFT)*	318.892	

Convergence Angle	0	3	29.9507655
Scale Factor			0.999926268
Elevation Adjust. Factor			0.9999847466
Combined Adjust. Factor			0.9999110158

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	15	39.9788856
Longitude	92	6	15.1191180
Ellipsoid Height:			71.394
Grid Northing (Meters)			576,848.4119
Grid Easting (Meters)			390,403.7910

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	15	39.9798684	
Longitude	92	6	15.1192764	
Ellipsoid Height (M):			71.204	0.0040
Geoid Height (M):			-26.004	0.0032

Location Description

THE STATION MARK IS LOCATED IN THE MEDIAN OF I 530, WEST OF WHITE HALL, SOUTH OF THE OVER PASS FOR STATE HIGHWAY 270 (EXIT 34), EAST 24.5 FEET OF THE EDGE OF CONCRETE OF THE SOUTH BOUND LANE, WEST 25.3 FEET OF THE EDGE OF CONCRETE OF THE NORTH BOUND LANE, 3.5 FEET SOUTH OF THE EDGE OF CONCRETE, AND EAST 21.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350025 2006 ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	350025A
Geodetic Azimuth	172 05 15
Grid Azimuth	172 08 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (ARCM, ARLR)
Ref Mon # 2	ARLR (CSAL)
Ref Mon # 3	ARPB (K 124)

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350025A	8/30/2006	AHTD	JEFFERSON	530	020445, 020626

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	576,321.1620	0.0020
Easting (M)	390,476.5169	0.0020
Elevation (M)*	88.895	

Northing (SFT)	1,890,813.6790	
Easting (SFT)	1,281,088.3725	
Elevation (SFT)*	291.651	

Convergence Angle	0	3	28.3478910
Scale Factor			0.999925944
Elevation Adjust. Factor			0.9999860496
Combined Adjust. Factor			0.9999119946

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	15	22.8681648
Longitude	92	6	12.2550624
Ellipsoid Height:			63.077
Grid Northing (Meters)			576,321.1429
Grid Easting (Meters)			390,476.5260

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	15	22.8687840
Longitude	92	6	12.2554188
Ellipsoid Height (M):	62.904		0.0050
Geoid Height (M):	-26.001		0.0032

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT 34), WEST OF WHITE HALL, GO SOUTH ON I 530 0.30 MILES TO THE STATION MARK IN THE MEDIAN, EAST 30.7 FEET OF THE EDGE OF CONCRETE OF THE SOUTH BOUND LANE, WEST 28.7 FEET OF THE EDGE OF CONCRETE OF THE NORTH BOUND LANE, AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "350025A 2006 ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	350025
Geodetic Azimuth	352 05 16
Grid Azimuth	352 08 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (ARCM, ARLR)
Ref Mon # 2	ARLR (CSAL)
Ref Mon # 3	ARPB (K 124)

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350026	1/19/2010	AHTD	JEFFERSON	54	020BR2

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	565,896.7000
Easting (M)	384,193.1780
Elevation (M)*	86.072
Northing (SFT)	1,856,612.7566
Easting (SFT)	1,260,473.7848
Elevation (SFT)*	282.388

Convergence Angle	0	5	45.4281131
Scale Factor			0.999920950
Elevation Adjust. Factor			0.9999864927
Combined Adjust. Factor			0.9999074437

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	9	44.2536516
Longitude	92	10	17.1768108
Ellipsoid Height (M):	60.249		
Geoid Height (M):	-25.823		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 74 AND STATE HIGHWAY 54, SOUTHWEST OF PINE BLUFF, GO WEST ON 54 FOR 6.55 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 30.1 FEET, AND SOUTHEAST 1.88 FEET OF A

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	65	21.85	71.7
MK # 2	30 INCH TWIN PINE	162	13.71	45.0
MK # 3	COMBINATION POLE	53	19.32	63.4

AZ Mark Station	350026A
Geodetic Azimuth	48 10 19
Grid Azimuth	48 16 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	CSAL, ARLR
Ref Mon # 2	K 124
Ref Mon # 3	ARHP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350026A	1/19/2010	AHTD	JEFFERSON	54	020BR2

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	566,184.0850
Easting (M)	384,515.3700
Elevation (M)*	88.606
Northing (SFT)	1,857,555.6189
Easting (SFT)	1,261,530.8431
Elevation (SFT)*	290.702
Convergence Angle	0 5 38.3975355
Scale Factor	0.999921052
Elevation Adjust. Factor	0.9999860950
Combined Adjust. Factor	0.9999071481

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	9	53.5985784
Longitude	92	10	4.6152696
Ellipsoid Height (M):	62.785		
Geoid Height (M):	-25.821		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 74 AND STATE HIGHWAY 54, SOUTHWEST OF PINE BLUFF, GO WEST ON 54 FOR 6.3 MILES TO THE STATION MARK ON THE RIGHT, NORTHWEST OF THE CENTERLINE OF THE HIGHWAY 24 FEET, AND SOUTHEAST 12 FEET OF A WIT

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	103	24.07	79.0
MK # 2	POWER POLE	200	32.58	106.9
MK # 3				

AZ Mark Station	350026
Geodetic Azimuth	228 10 27
Grid Azimuth	228 16 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	CSAL, ARLR
Ref Mon # 2	K 124
Ref Mon # 3	ARHP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350027	11/19/2010	AHTD	Jefferson	79	020505,020615

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	568,180.2862	0.0030
Easting (M)	393,013.9755	0.0040
Elevation (M)*	72.347	
Northing (SFT)	1,864,104.8223	
Easting (SFT)	1,289,413.3513	
Elevation (SFT)*	237.358	

Convergence Angle	0	2	32.7033738
Scale Factor			0.999921818
Elevation Adjust. Factor			0.9999886465
Combined Adjust. Factor			0.9999104654

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	10	58.7173476
Longitude	92	4	32.8361772
Ellipsoid Height:			46.545
Grid Northing (Meters)			568,180.2930
Grid Easting (Meters)			393,013.9530

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	10	58.7171280	
Longitude	92	4	32.8352952	
Ellipsoid Height (M):			46.402	0.0060
Geoid Height (M):			-25.945	

Location Description

To reach the station from the junction of I-530 and highway 79 south, southwest of Pine Bluff go south on hwy-79 for 1.10 miles to the station on the right. 59.0 feet northwest of the center of hwy-79, 90 feet north of Nevins road, 13 feet northwest of a drainage ditch and 1.50 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "350027 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	North end of a 24 inch cmp	223	21.95	72.0
MK # 2	Fire hydrant	183	46.02	151.0
MK # 3	Power pole with guy and transformer	55	41.45	136.0

AZ Mark Station	350027A
Geodetic Azimuth	206 29 22
Grid Azimuth	206 31 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARMO

Comments

Digital Levels were ran by crew S5113 from NGS mark S 288 to R 288 in Nov. 2010 during Job 020505. **********Position updated by Garver in August 2017 during job 020615 via static GPS. Elevations by digital level from NGS BM RV177 remained unchanged from previous elevation.*******

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350027A	11/19/2010	AHTD	Jefferson	79	020505,020615

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	567,762.8981	0.0030
Easting (M)	392,805.5889	0.0040
Elevation (M)*	70.235	
Northing (SFT)	1,862,735.4415	
Easting (SFT)	1,288,729.6696	
Elevation (SFT)*	230.430	

Convergence Angle	0	2	37.2514158
Scale Factor	0.999921650		
Elevation Adjust. Factor	0.9999889779		
Combined Adjust. Factor	0.9999106288		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	10	45.1653240
Longitude	92	4	40.9623384
Ellipsoid Height:	44.437		
Grid Northing (Meters)	567,762.9079		
Grid Easting (Meters)	392,805.5620		

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	34	10	45.1650072
Longitude	92	4	40.9612872
Ellipsoid Height (M):	44.299		0.0100
Geoid Height (M):	-25.941		

Location Description

To reach the station from the junction of I-530 and highway 79 south, southwest of Pine Bluff go south on hwy-79 for 1.40 miles to the station on the left just past a bridge over Nevins creek. 74 feet northwest of the right of way fence, 34 feet southeast of the center of hwy-79, 24 feet southwest of a paved driveway and 2.0 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "350027A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Drop inlet across the highway	343	23.47	77.0
MK # 2	Telephone box in yard	97	28.65	94.0
MK # 3	Combination pole in yard	61	19.81	65.0

AZ Mark Station	350027
Geodetic Azimuth	26 29 17
Grid Azimuth	26 31 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARMO

Comments

Digital Levels were ran by crew S5113 from NGS mark S 288 to R 288 in Nov. 2010 during Job 020505.**********Position updated by Garver in August 2017 during job 020615 via static GPS. Elevations by digital level from NGS BM RV177 remained unchanged from previous elevation.*******

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350028	12/2/2014	AHTD	JEFFERSON	63	RX0030

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	556,188.3729
Easting (M)	397,258.8102
Elevation (M)*	
Northing (SFT)	1,824,761.3534
Easting (SFT)	1,303,339.9465
Elevation (SFT)*	

Convergence Angle	0	0	59.8420073
Scale Factor			0.999918718
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID99		
Latitude	34	4	29.5661280
Longitude	92	1	46.9197840
Ellipsoid Height (M):	58.193		
Geoid Height (M):	-25.801		

Location Description

TO REACH FROM THE JCT. OF HWY. 63 AND HWY. 54 EAST NEAR PINE BLUFF. GO SOUTH ON HWY. 63 FOR 2.15 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 43 FT. EAST OF THE CENTERLINE OF HWY 63, AND 19 FT. WEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350028 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	142	29.60	97.1
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	MSB6

Comments

34.0430 92.0147

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350029	12/8/2014	AHTD	JEFFERSON	530	BB0201

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	582,025.9838	0.0040
Easting (M)	387,069.1371	0.0036
Elevation (M)*		

Northing (SFT)	1,909,530.2485	
Easting (SFT)	1,269,909.3273	
Elevation (SFT)*		

Convergence Angle	0	4	43.0632805
Scale Factor			0.999929809
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID99		
Latitude	34	18	27.8924760
Longitude	92	8	25.7494920
Ellipsoid Height (M):	64.847		0.0275
Geoid Height (M):	-25.958		

Location Description

TO REACH FROM THE EXIT 30 OVERPASS ON I-530 OVER HWY. 104 NEAR PINE BLUFF. THE MARK IS IN THE CENTER OF THE MEDIAN ON THE SOUTH SIDE OF THE OVERPASS. THE STATION MARK IS 1 FT. EAST OF A WITNESS POST, 7 FT. SOUTH OF A CONCRETE RETAINING WALL, 38.8 FT. WEST OF THE CENTER OF NORTH BOUND I-530, AND 45.2 FT. EAST OF THE CENTER OF SOUTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350029 2014" SET ONTOP OF A 5/8 IN BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SW COR OF BRIDGE N BOUND I-530	356	11.20	36.7
MK # 2	SE COR OF BRIDGE S BOUND I-530	190	9.90	32.5
MK # 3				

AZ Mark Station	350029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	MSB6

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350029A	12/8/2014	AHTD	JEFFERSON	530	BB0201

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	581,586.6204	0.0043
Easting (M)	387,492.8709	0.0039
Elevation (M)*		

Northing (SFT)	1,908,088.7704	
Easting (SFT)	1,271,299.5273	
Elevation (SFT)*		

Convergence Angle	0	4	33.7747748
Scale Factor			0.999929483
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID99		
Latitude	34	18	13.6511640
Longitude	92	8	9.1537080
Ellipsoid Height (M):	56.087		0.0279
Geoid Height (M):	-25.956		

Location Description

TO REACH FROM THE EXIT 30 OVERPASS ON I-530 OVER HWY. 104 NEAR PINE BLUFF. GO SOUTH ON I-530 FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS 11.5 FT. EAST OF A WITNESS POST, 37.3 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 47 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350029A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL CABLE BARRIER POST	282	8.40	27.6
MK # 2	METAL CABLE BARRIER POST	250	5.10	16.7
MK # 3	METAL CABLE BARRIER POST	196	4.90	16.1

AZ Mark Station	350029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	MSB6

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350030	12/8/2014	AHTD	JEFFERSON	530	BB0201,020661

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	590,850.6956	0.0055
Easting (M)	383,261.1343	0.0056
Elevation (M)*	101.496	0.0066
Northing (SFT)	1,938,482.6571	
Easting (SFT)	1,257,415.9048	
Elevation (SFT)*	332.991	

Convergence Angle	0	6	6.7657730
Scale Factor			0.999937371
Elevation Adjust. Factor			0.9999840722
Combined Adjust. Factor			0.9999214442

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	34	23	14.1073440
Longitude	92	10	55.3002240
Ellipsoid Height:			75.493
Grid Northing (Meters)			590,850.6940
Grid Easting (Meters)			383,261.1498

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	23	14.1073944	
Longitude	92	10	55.3008324	
Ellipsoid Height (M):			75.449	0.0111
Geoid Height (M):			-26.046	

Location Description

TO REACH FROM THE EXIT 24 OVERPASS ON I-530 OVER STAGECOACH RD. NEAR PINE BLUFF. GO TO THE NORTH SIDE OF THE OVERPASS TO THE STATION MARK ON THE LEFT. THE STATION MARK IS 1 FT. EAST OF A WITNESS POST, 13.5 FT. NORTH OF A CONCRETE RETAINING WALL, 43.5 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 35.8 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN CAP STAMPED "350030 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW CORNER OF BRIDGE N BOUND I-530	183	11.80	38.7
MK # 2	NE CORNER OF BRIDGE S BOUND I-530	225	7.80	25.6
MK # 3				

AZ Mark Station	350030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	MSB6

Comments

ELEV DETERIMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350030A	12/8/2014	AHTD	JEFFERSON	530	BB0201,020661

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	591,515.3743	0.0058
Easting (M)	383,117.7774	0.0059
Elevation (M)*	93.500	0.0074
Northing (SFT)	1,940,663.3572	
Easting (SFT)	1,256,945.5747	
Elevation (SFT)*	306.758	

Convergence Angle	0	6	9.9329831
Scale Factor			0.999938019
Elevation Adjust. Factor			0.9999853270
Combined Adjust. Factor			0.9999233469

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	34	23	35.6713800
Longitude	92	11	0.9592800
Ellipsoid Height:			67.503
Grid Northing (Meters)			591,515.3782
Grid Easting (Meters)			383,117.7879

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	23	35.6712540	
Longitude	92	11	0.9596904	
Ellipsoid Height (M):			67.453	0.0114
Geoid Height (M):			-26.049	

Location Description

TO REACH FROM THE EXIT 24 OVERPASS ON I-530 OVER STAGECOACH RD. NEAR PINE BLUFF. GO NORTH ON I-530 FOR 0.4 MILES TO THE STATION MARK ON THE LEFT. THE STATION MARK IS 6 FT. EAST OF A WITNESS POST, 29.3 FT. EAST OF THE CENTER OF SOUTH BOUND I-530, AND 54.5 FT. WEST OF THE CENTER OF NORTH BOUND I-530. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "350030A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL CABLE BARRIER POST	197	5.40	17.7
MK # 2	METAL CABLE BARRIER POST	262	2.50	8.2
MK # 3	METAL CABLE BARRIER POST	327	5.10	16.7

AZ Mark Station	350030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	MSB6

Comments

ELEV DETERIMINED BY DIGITAL LEVEL RUN FROM NGS BM E 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350031	1/26/2015	AHTD	JEFFERSON	13th AV	C35002.020588,020628

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)

Northing (M)	571,876.5539	0.0030
Easting (M)	397,512.4009	0.0030
Elevation (M)*	69.638	0.0020

Northing (SFT)	1,876,231.6606	
Easting (SFT)	1,304,171.9353	
Elevation (SFT)*	228.472	

Convergence Angle	0	0	54.3962729
Scale Factor			0.999923490
Elevation Adjust. Factor			0.9999890716
Combined Adjust. Factor			0.9999125624

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	34	12	58.7586240
Longitude	92	1	37.1898840
Ellipsoid Height:			42.929
Grid Northing (Meters)			571,876.5539
Grid Easting (Meters)			397,512.4009

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	12	58.7586240	
Longitude	92	1	37.1898840	
Ellipsoid Height (M):			42.929	0.0140
Geoid Height (M):			-25.997	0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 190 AND STATE HIGHWAY 79B, IN PINE BLUFF, GO SOUTH ON 79B FOR 0.5 MILES TO W 13th AVE AND TURN LEFT (EAST) AND GO 0.9 MILES TO THE MARK ON THE RIGHT, SOUTH 23 FEET OF THE BACK OF THE CURB OF 13th STREET, AND EAST 68.6 FEET OF THE EASTERN MOST RAIL OF THE RAIL ROAD TRACKS. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 350031" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS VALVE	319	19.20	63.0
MK # 2	NW CORNER 1-S-F HOUSE	158	35.70	117.1
MK # 3				

AZ Mark Station	350031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	ARPB

Comments

ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS BM C 11 BY S5112 IN JANUARY OF 2015 FOR JOB #C35002. ELEVATION FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT. ********* Elevation updated from 228.971" to 228.4720' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288during job 020588.********** Position updated durin 020588 using static GPS constraining the ortho. Ht at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350031A	1/26/2015	AHTD	JEFFERSON	13th AV	C35002,020588

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	571,894.2465	0.0030
Easting (M)	398,131.5733	0.0030
Elevation (M)*	68.205	0.0018
Northing (SFT)	1,876,289.7071	
Easting (SFT)	1,306,203.3367	
Elevation (SFT)*	223.770	

Convergence Angle	0	0	40.8569209
Scale Factor			0.999923499
Elevation Adjust. Factor			0.9999892965
Combined Adjust. Factor			0.9999127963

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	34	12	59.3375040
Longitude	92	1	12.9991080
Ellipsoid Height:			41.503
Grid Northing (Meters)			571,894.2465
Grid Easting (Meters)			398,131.5733

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	12	59.3375040	
Longitude	92	1	12.9991080	
Ellipsoid Height (M):			41.503	0.0140
Geoid Height (M):			-26.006	0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 190 AND STATE HIGHWAY 79B, IN PINE BLUFF, GO SOUTH ON 79B FOR 0.5 MILES TO W 13th AVE AND TURN LEFT (EAST) AND GO 1.3 MILES TO THE MARK ON THE LEFT, NORTH 31.5 FEET OF THE CENTER LINE OF 13th AVE, EAST 78.5 FEET OF THE CENTERLINE OF HICKORY STREET, IN THE CORNER OF THE SIDE WALK AND THE STEPS LEADING FROM A HOUSE WITH THE ADDRESS 1709. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 350031A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SE CORNER OF A 1-S-F HOUSE	315	18.40	60.4
MK # 2	SW CORNER OF A 1-S-F HOUSE	28	28.00	91.9
MK # 3				

AZ Mark Station	350031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	ARPB

Comments

ELEVATION BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS BM C 11 BY S5112 IN JANUARY OF 2015 FOR JOB #C35002. ELEVATION FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT. ********* Elevation updated from 224.254" to 223.770' in September 2017 by Garver. Digital levels ran from NGS BM S288 and X 288during job 020588.**********Position updated durin 020588 using static GPS constraining the ortho. Ht at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350032	6/7/2016	AHTD	JEFFERSON	US-63	020584

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	557,943.8022	0.0020
Easting (M)	400,474.0999	0.0020
Elevation (M)*		

Northing (SFT)	1,830,520.6244	
Easting (SFT)	1,313,888.7761	
Elevation (SFT)*		

Convergence Angle	0	0	10.3518419
Scale Factor	0.999918950		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	5	26.5551828	
Longitude	91	59	41.5043520	
Ellipsoid Height (M):	50.065			0.0050
Geoid Height (M):	-25.898			0.0050

Location Description

FROM JCT OF US-63 & SR-54W IN PINEBERGEN, S OF PINE BLUFF, GO S ON US-63 0.75 MI TO STA ON L. 14' E OF EDGE OF PAVEMENT.STA IS A 2 1/2" ALUM CAP STAMPED "350032 2016" SET BELLOW SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	350032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	ARPB, ARWY

Comments

CONSTRAINED ORTHOMETRIC HTS. ON ARLR, ARCM & ARWY IN FINAL NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350032A	6/7/2016	AHTD	JEFFERSON	US-63	020584

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	558,423.1719	0.0020
Easting (M)	400,559.1556	0.0020
Elevation (M)*		

Northing (SFT)	1,832,093.3565	
Easting (SFT)	1,314,167.8297	
Elevation (SFT)*		

Convergence Angle	0	0	12.2096297
Scale Factor			0.999919027
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	5	42.1140624
Longitude	91	59	38.1850404
Ellipsoid Height (M):	46.848		0.0050
Geoid Height (M):	-25.901		0.0050

Location Description

FROM JCT OF US-63 & SR-54W IN PINEBERGEN, S OF PINE BLUFF, GO S ON US-63 0.4 MI TO STA TO STA ON L. 5' E OF EDGE OF PAVEMENT.STA IS A 2 1/2" ALUM CAP STAMPED "350032A 2016" SET BELLOW SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	PHONE BOX	154	52.00	170.6
MK # 2				
MK # 3				

AZ Mark Station	350032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	ARPB, ARWY

Comments

CONSTRAINED ORTHOMETRIC HTS. ON ARLR, ARCM & ARWY IN FINAL NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350033	9/26/2016	AHTD	JEFFERSON	270	020626

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	578,367.5414	0.0020
Easting (M)	387,504.7721	0.0020
Elevation (M)*	99.700	
Northing (SFT)	1,897,527.5087	
Easting (SFT)	1,271,338.5731	
Elevation (SFT)*	327.098	

Convergence Angle	0	4	33.4208580	
Scale Factor	0.999927237			
Elevation Adjust. Factor	0.9999843541			
Combined Adjust. Factor	0.9999115922			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	16	29.1735984	
Longitude	92	8	8.5213644	
Ellipsoid Height (M):	73.693			0.0040
Geoid Height (M):	-26.005			0.0026

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT34), WEST OF PINE BLUFF, GO WEST ON HIGHWAY 270 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 52.8 FEET OF THE CENTELINE OF THE HIGHWAY AND WEST 31.5 FEET OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350033" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE	137	31.00	101.7
MK # 2	COMBINATION POLE W/TRANSFORMER	290	54.20	177.8
MK # 3				

AZ Mark Station	350033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350033A	9/26/2016	AHTD	JEFFERSON	270	020626

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	578,109.9886	0.0020
Easting (M)	388,005.8980	0.0020
Elevation (M)*	98.773	
Northing (SFT)	1,896,682.5209	
Easting (SFT)	1,272,982.6837	
Elevation (SFT)*	324.057	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	16	20.8355880	
Longitude	92	7	48.9162360	
Ellipsoid Height (M):	72.764			0.0040
Geoid Height (M):	-26.005			0.0026

Convergence Angle	0	4	22.4480502
Scale Factor	0.999927069		
Elevation Adjust. Factor	0.9999844996		
Combined Adjust. Factor	0.9999115697		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 AND I 530 (EXIT34), WEST OF PINE BLUFF, GO WEST ON HIGHWAY 270 1.6 MILES TO THE MARK ON THE LEFT, SOUTH 29 FEET OF THE CENTELINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350033A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/2 GUYS	282	113.70	373.0
MK # 2	COMBINATION POLE W/TRANSFORMER & LIGHT	133	121.00	397.0
MK # 3				

AZ Mark Station	350033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350034	9/26/2016	AHTD	JEFFERSON	270	020626

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	575,509.2523	0.0020
Easting (M)	393,114.1300	0.0020
Elevation (M)*	79.724	
Northing (SFT)	1,888,149.9386	
Easting (SFT)	1,289,741.9415	
Elevation (SFT)*	261.560	

Convergence Angle	0	2	30.6311477
Scale Factor	0.999925460		
Elevation Adjust. Factor	0.9999874889		
Combined Adjust. Factor	0.9999129498		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	14	56.5917828
Longitude	92	4	29.1328464
Ellipsoid Height (M):	53.741	0.0050	
Geoid Height (M):	-26.004	0.0022	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270, HIGHWAY 365, NORTH CHEATHAM STREET AND NORTH BYRANT STREET, SOUTHEAST OF WHITEHALL, GO WEST ON HIGHWAY 270 0.3 MILES TO THE MARK ON THE LEFT, SOUTH 27 FEET OF THE CENTELINE OF THE HIGHWAY AND WEST 26.2 FEET OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350034" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EASTERN MOST GATE POST	138	48.30	158.5
MK # 2				
MK # 3				

AZ Mark Station	350034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350034A	9/26/2016	AHTD	JEFFERSON	HEATHA	020626

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	575,492.5166	0.0020
Easting (M)	393,625.0968	0.0020
Elevation (M)*	79.138	
Northing (SFT)	1,888,095.0315	
Easting (SFT)	1,291,418.3384	
Elevation (SFT)*	259.637	

Convergence Angle	0	2	19.4533010
Scale Factor	0.999925451		
Elevation Adjust. Factor	0.9999875809		
Combined Adjust. Factor	0.9999130328		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	14	56.0602680
Longitude	92	4	9.1613748
Ellipsoid Height (M):	53.155	0.0050	
Geoid Height (M):	-26.006	0.0017	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270, HIGHWAY 365, NORTH CHEATHAM STREET AND NORTH BYRANT STREET, SOUTHEAST OF WHITEHALL, GO EAST ON CHEATHAM STREET 100 FEET TO THE MARK ON THE LEFT, SOUTH 15 FEET OF THE CENTELINE OF CHEATHAM STREET. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 350034A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER OF CINDER BLOCK B LDNG	49	25.00	82.0
MK # 2	SOUTHWEST CORNER OF CINDER BLOCK B LDNG	318	30.30	99.4
MK # 3	SS MANHOLE	173	17.00	55.8

AZ Mark Station	350034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 IN OCT. OF 2016 FOR JOB #020626 FROM NGS 2ND ORDER BM P 80 TO NGS 1ST ORDER BM P 288.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350035	8/1/2017	AHTD	JEFFERSON	Sorrells R	020615

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	565,299.8837	0.0030
Easting (M)	392,730.1070	0.0040
Elevation (M)*		

Northing (SFT)	1,854,654.7018	
Easting (SFT)	1,288,482.0260	
Elevation (SFT)*		

Convergence Angle	0	2	38.8597949
Scale Factor			0.999920749
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	34	9	25.2216000
Longitude	92	4	43.8349800
Ellipsoid Height (M):			56.589 0.0100
Geoid Height (M):			-25.921

Location Description

To reach from the junction of Hwy 79 and Sorrells Rd in Pine Bluff, go East 1.1 miles, then North 0.5 miles to the station on the right. The station is 1' West of a witneess post, 530' North of of Calloway Hill and 32' East of CL

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Intersection of Sorrells and Calloway Hill	6	161.40	529.5
MK # 2	Edge of Pavement	92	5.22	17.1
MK # 3	Intersection of Sorrells and County Lane	246	161.20	528.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARMO
Ref Mon # 3	ARLR

Comments

Three wire elevations and static GPS by Garver in August 2017 for job 020615. Elevations based on AHTD GPS Mon. 350027.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350036	8/31/2017	AHTD	JEFFERSON	79	020630

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	591,797.8920	0.0020
Easting (M)	421,142.2708	0.0020
Elevation (M)*	57.409	

Northing (SFT)	1,941,590.2507	
Easting (SFT)	1,381,697.6001	
Elevation (SFT)*	188.348	

Convergence Angle	0	7	43.2952342	
Scale Factor	0.999938289			
Elevation Adjust. Factor	0.9999909908			
Combined Adjust. Factor	0.9999292804			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	23	44.5611012	
Longitude	91	46	12.2298672	
Ellipsoid Height (M):	31.118			0.0080
Geoid Height (M):	-26.290			

Location Description

From the intersection of Hwy 79 and Hartley Dump Rd., a gravel rd., go West 0.7 miile to the station on the left. 6.5' N of witness post, 32.4' S of center of concrete B.R., 85' E of a PP

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Witness Post		1.98	6.5
MK # 2	conc. B.R.		9.88	32.4
MK # 3	Power Pole		25.91	85.0

AZ Mark Station	350036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY

Comments

Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from BMD3, which was determined by static GPS constraining the ortho. Ht. at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350036A	8/31/2017	AHTD	JEFFERSON	79	020630

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	591,797.4435	0.0020
Easting (M)	420,567.2990	0.0020
Elevation (M)*	58.753	0.0016
Northing (SFT)	1,941,588.7792	
Easting (SFT)	1,379,811.2135	
Elevation (SFT)*	192.760	

Convergence Angle	0	7	30.6957703
Scale Factor	0.999938290		
Elevation Adjust. Factor	0.9999907798		
Combined Adjust. Factor	0.9999290703		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	34	23	44.5878888
Longitude	91	46	34.7413440
Ellipsoid Height (M):	32.460		0.0080
Geoid Height (M):	-26.286		

Location Description

From the intersection of Hwy. 79 and Hartley Dump Rd., a gravel Rd., go west 1.1 miles to the station on the left in the center of a levee headed south buried 0.7' below surface. 69.2' S of witness post, 53' S of center of gravel Rd.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Witness Post		21.09	69.2
MK # 2	center of gravel rd.		16.15	53.0
MK # 3				

AZ Mark Station	350036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY

Comments

Position and elevation updated by crew S5113 in August 2017 during job 020630.Elevation determined by digital level from BMD3, which was determined by static GPS constraining the ortho. Ht. at ARPB.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350037	4/12/2022	S5101	JEFFERSON	365	020661

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	586,650.4715	0.0061
Easting (M)	386,761.9113	0.0062
Elevation (M)*	101.335	0.0035
Northing (SFT)	1,924,702.4219	
Easting (SFT)	1,268,901.3707	
Elevation (SFT)*	332.463	

Convergence Angle	0	4	49.9309002
Scale Factor	0.999933535		
Elevation Adjust. Factor	0.9999840975		
Combined Adjust. Factor	0.9999176336		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	20	57.9690240
Longitude	92	8	38.0198760
Ellipsoid Height (M):	75.299		0.0130
Geoid Height (M):	-26.037		

Location Description

FROM THE INTERSECTION OF INTERSTATE 530 AND STATE HIGHWAY 104 (EXIT 30) NEAR WHITE HALL IN JEFFERSON COUNTY ARKANSAS TRAVEL NORTH ALONG STATE HIGHWAY 104 FOR 2.57 MILES TO THE INTERSECTION OF STATE HIGHWAY 104 AND STATE HIGHWAY 365 (DOLLARWAY ROAD) THEN TRAVEL NORTHWEST ALONG STATE HIGHWAY 365 FOR 0.39 MILES TO THE INTERSECTION OF STATE HIGHWAY 365 AND ROEMER ROAD AND THE STATION ON THE RIGHT. THE STATION IS A STANDARD 3 INCH ARDOT GPS CAP STAMPED 350037 (2022) SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 11.89 METERS RIGHT OF THE CENTERLINE OF STATE HIGHWAY 365 AND 26.52 METERS SOUTH OF THE CENTERLINE OF ROEMER ROAD.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE W GUY	50	10.06	33.0
MK # 2	NORTHWEST CORNER OF BLOCK BUILDIN	95	23.47	77.0
MK # 3	WEST EDGE OF SIGN	130	5.18	17.0

AZ Mark Station	350037A
Geodetic Azimuth	318 41 33.2
Grid Azimuth	318 46 28.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARSH

Comments

ELEV DETERIMINED BY DIGITAL LEVEL RUN FROM NGS BM G 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350037A	4/12/2022	S5101	JEFFERSON	365	020661

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	587,202.8091	0.0063
Easting (M)	386,277.9424	0.0065
Elevation (M)*	102.077	0.0035
Northing (SFT)	1,926,514.5495	
Easting (SFT)	1,267,313.5494	
Elevation (SFT)*	334.898	

Convergence Angle	0	5	0.5480422
Scale Factor			0.999934014
Elevation Adjust. Factor			0.9999839810
Combined Adjust. Factor			0.9999179961

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	21	15.8728680	
Longitude	92	8	56.9895360	
Ellipsoid Height (M):			76.047	0.0137
Geoid Height (M):			-26.038	

Location Description

FROM THE INTERSECTION OF INTERSTATE 530 AND STATE HIGHWAY 104 (EXIT 30) NEAR WHITE HALL IN JEFFERSON COUNTY ARKANSAS TRAVEL NORTH ALONG STATE HIGHWAY 104 FOR 2.57 MILES TO THE INTERSECTION OF STATE HIGHWAY 104 AND STATE HIGHWAY 365 (DOLLARWAY ROAD) THEN TRAVEL NORTHWEST ALONG STATE HIGHWAY 365 FOR 0.83 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3 INCH ARDOT GPS CAP STAMPED 350037A (2022) SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 14.29 METERS LEFT OF THE CENTERLINE OF STATE HIGHWAY 365 AND NEAR THE TOP OF THE OUTER DITCH BANK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	330	18.59	61.0
MK # 2	FENCE CORNER	140	15.85	52.0
MK # 3	SERVICE POLE W GUY	280	26.00	85.3

AZ Mark Station	350037
Geodetic Azimuth	138 41 27.8
Grid Azimuth	138 46 28.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARSH

Comments

ELEV DETERIMINED BY DIGITAL LEVEL RUN FROM NGS BM G 288 DURING JOB 020661 BY CREW S5101 IN APRIL 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350038	3/28/2024	ARDOT	JEFFERSON	31	020812

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	584,239.6653	0.0010
Easting (M)	403,388.8462	0.0010
Elevation (M)*	63.878	0.0000
Northing (SFT)	1,916,792.9686	
Easting (SFT)	1,323,451.5729	
Elevation (SFT)*	209.572	

Convergence Angle	0	1	14.2010736
Scale Factor			0.999931533
Elevation Adjust. Factor			0.9999899756
Combined Adjust. Factor			0.9999215093

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	19	40.0072296
Longitude	91	57	47.4248556
Ellipsoid Height (M):	37.791		0.0080
Geoid Height (M):	-26.087		

Location Description

TO REACH FROM THE INTERSECTION OFHIGHWAY 31 AND HIGHWAY 79B NEAR PINE BLUFF, JEFFERSON COUNTY, ARKANSAS. TRAVEL NORTH ALONG HIGHWAY 31 FOR 1.9 MILES TO THE STATION ON THE LEFT (WEST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 350038, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 25FT NORTHWEST OF THE CENTERLINE OF HIGHWAY 31 AND 40FT NORTHEAST OF A DIRT FIELD ENTRANCE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	WELL	79	15.00	49.2
MK # 2				
MK # 3				

AZ Mark Station	350038A
Geodetic Azimuth	36 19 02.6
Grid Azimuth	36 17 46.2

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARSH
Ref Mon # 2	ARPB
Ref Mon # 3	ARST

Comments

ELEVATION WAS EST. BY STATIC OBS. HOLDING NGS BM EVERGREEN DURING JOB 02X322 BY CREW S5102 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350038A	3/28/2024	ARDOT	JEFFERSON	31	020812

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	584,521.2640	0.0010
Easting (M)	403,595.6719	0.0010
Elevation (M)*	64.277	0.0098
Northing (SFT)	1,917,716.8470	
Easting (SFT)	1,324,130.1336	
Elevation (SFT)*	210.882	

Convergence Angle	0	1	18.7320133
Scale Factor	0.999931760		
Elevation Adjust. Factor	0.9999899129		
Combined Adjust. Factor	0.9999216736		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	19	49.1441952	
Longitude	91	57	39.3294204	
Ellipsoid Height (M):	38.188			0.0080
Geoid Height (M):	-26.090			

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 31 AND HIGHWAY 79B NEAR PINE BLUFF, JEFFERSON COUNTY, ARKANSAS. TRAVEL NORTH ALONG HIGHWAY 31 FOR 2.2 MILES TO THE STATION ON THE RIGHT (EAST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 350038A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 25FT SOUTHEST OF THE CENTERLINE OF HIGHWAY 31 AND 37FT NORTHEAST OF THE CENTERLINE OF ST MARY CATHOLIC CHURCH RD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST END OF 18IN REINFORCED CONCRETE PIPE	4	7.00	23.0
MK # 2				
MK # 3				

AZ Mark Station	350038
Geodetic Azimuth	216 19 02.6
Grid Azimuth	216 17 46.2

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARSH
Ref Mon # 2	ARPB
Ref Mon # 3	ARST

Comments

ELEVATION WAS EST. BY HOLDING STATIC DERIVED ELEV ON GPS 350038 THEN 3WR LEVELS WERE RAN TO GPS 350038A DURING JOB 02X322 BY CREW S5102 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350039	3/26/2024	ARDOT	JEFFERSON	190	02X323

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	571,809.6597	0.0010
Easting (M)	392,018.4143	0.0010
Elevation (M)*	71.829	0.0024
Northing (SFT)	1,876,012.1919	
Easting (SFT)	1,286,147.0809	
Elevation (SFT)*	235.657	

Convergence Angle	0	2	54.5318761
Scale Factor	0.999923455		
Elevation Adjust. Factor	0.9999887279		
Combined Adjust. Factor	0.9999121838		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	12	56.4885216	
Longitude	92	5	11.8363056	
Ellipsoid Height (M):	45.880			0.0050
Geoid Height (M):	-25.948			

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 190 AND I-530 IN PINE BLUFF, JEFFERSON COUNTY, TRAVEL WEST ALONG HIGHWAY 190 FOR 0.9 MILES TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 350039, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 16FT SOUTH OF A WITNESS POST, 23FT NORTH OF THE CENTERLINE OF HIGHWAY 190, AND 17FT SOUTH OF PRISON FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	28	16.00	52.5
MK # 2	NORTH END OF 24IN CORRUGATED METAL PIPE	272	31.00	101.7
MK # 3				

AZ Mark Station	350039A
Geodetic Azimuth	88 39 46.3
Grid Azimuth	88 42 36.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARSH
Ref Mon # 2	ARPB
Ref Mon # 3	ARST

Comments

ELEV EST BY HOLDING THE STATIC DERIVED ELEV OF GPS 350039A 3WR LEVELS WERE RAN TO 350039 DURING JOB 02X323 BY CREW S5102 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350039A	3/26/2024	ARDOT	JEFFERSON	190	02X323

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	571,818.0785	0.0010
Easting (M)	392,392.3422	0.0010
Elevation (M)*	71.659	0.0000
Northing (SFT)	1,876,039.8125	
Easting (SFT)	1,287,373.8760	
Elevation (SFT)*	235.101	

Convergence Angle	0	2	46.3554144
Scale Factor	0.999923460		
Elevation Adjust. Factor	0.9999887545		
Combined Adjust. Factor	0.9999122154		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	12	56.7717948	
Longitude	92	4	57.2274120	
Ellipsoid Height (M):	45.711			0.0050
Geoid Height (M):	-25.948			

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 190 AND I-530 IN PINE BLUFF, JEFFERSON COUNTY, TRAVEL WEST ALONG HIGHWAY 190 FOR 0.6 MILES TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 350039A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 12FT SOUTHEAST OF A WITNESS POST AND 23FT NORTH OF THE CENTERLINE OF HIGHWAY 190.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL BOX	232	9.00	29.5
MK # 2	FENCE CORNER	120	4.00	13.1
MK # 3	POWER POLE	327	16.00	52.5

AZ Mark Station	350039
Geodetic Azimuth	268 39 46.3
Grid Azimuth	268 42 36.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARSH
Ref Mon # 2	ARPB
Ref Mon # 3	ARST

Comments

ELEV EST BY STATIC OBS HOLDING AN OFFSET ELEV RAN FROM NGS BM P 80 DURING JOB 02X323 BY CREW S5102 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350040	5/29/2024	ARDOT	JEFFERSON	31	012384

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	590,816.2538	0.0020
Easting (M)	405,760.4695	0.0030
Elevation (M)*	65.740	
Northing (SFT)	1,938,369.6593	
Easting (SFT)	1,331,232.4737	
Elevation (SFT)*	215.680	

Convergence Angle	0	2	6.2174694
Scale Factor	0.999937351		
Elevation Adjust. Factor	0.9999896834		
Combined Adjust. Factor	0.9999270351		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	23	13.4153772
Longitude	91	56	14.4871008
Ellipsoid Height (M):	39.488	0.0090	
Geoid Height (M):	-26.149	0.0090	

Location Description

To reach from the intersection of Hwy 31 and Highway 1 in Sherrill, go North on 31 for 0.6 miles to the station on the Right/East. The station is 17.0 ft. East of the centerline of Highway 31. The station mark is a standard 2 1/2in. aluminium cap stamped "350040 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	63	17.30	56.8
MK # 2				
MK # 3				

AZ Mark Station	350040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	ARLR
Ref Mon # 3	ARSC

Comments

ELEV. IS BASED ON DIGITAL LEVELS BY S5103 IN JUNE 2024 FOR JOB #012384 SITE 8 FROM NGS PUBLISHED 2ND ORDER BM R 53

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350040A	5/29/2024	ARDOT	JEFFERSON	31	012384

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	590,519.6458	0.0020
Easting (M)	405,497.8865	0.0030
Elevation (M)*	65.950	
Northing (SFT)	1,937,396.5379	
Easting (SFT)	1,330,370.9826	
Elevation (SFT)*	216.371	

Convergence Angle	0	2	0.4602275
Scale Factor			0.999937065
Elevation Adjust. Factor			0.9999896504
Combined Adjust. Factor			0.9999267160

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	23	3.7940280
Longitude	91	56	24.7735716
Ellipsoid Height (M):	39.702	0.0090	
Geoid Height (M):	-26.145	0.0090	

Location Description

To reach from the intersection of Hwy 31 and Highway 1 in Sherrill, go North on 31 for 0.35 miles to the station on the Right/East. The station is 17.7 ft. East of the centerline of Highway 31. The station mark is a standard 2 1/2in. aluminium cap stamped "350040A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	350040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	ARLR
Ref Mon # 3	ARSC

Comments

ELEV. IS BASED ON DIGITAL LEVELS BY S5103 IN JUNE 2024 FOR JOB #012384 SITE 8 FROM NGS PUBLISHED 2ND ORDER BM R 53

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360001	5/6/1991	AHTD	JOHNSON	215	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	150,194.1150
Easting (M)	247,457.1150
Elevation (M)*	
Northing (SFT)	492,761.8590
Easting (SFT)	811,865.5515
Elevation (SFT)*	

Convergence Angle	0	58	50.1219342
Scale Factor	0.999937196		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	31.3607712
Longitude	93	41	6.5530572
Ellipsoid Height (M):	233.824		
Geoid Height (M):	-28.992		

Location Description

FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, FOLLOW THE COUNTY ROAD 9.35 MILES TO THE JCT. OF FS. RD. 1541 ON THE LEFT AND A FIELD ENTRANCE, GO RIGHT INTO FIELD AND SOUTHWEST THROUGH SECOND GATE. THE STATION IS 311.59 FEET ALONG THE FENCE AND 3.60 FEET NORTHEAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GATE POST AT LATCH END OF GATE	100	94.97	311.6
MK # 2	NBC IN TOP OF POST AT FENCE JCT	128	86.70	284.5
MK # 3	NBC IN TOP FENCE POST AT CORNER OF G ARDEN	26	29.83	97.9

AZ Mark Station	91360002
Geodetic Azimuth	97 17 32
Grid Azimuth	98 16 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91360001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360002	5/6/1991	AHTD	JOHNSON	215	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	150,170.1040
Easting (M)	247,622.2570
Elevation (M)*	
Northing (SFT)	492,683.0829
Easting (SFT)	812,407.3548
Elevation (SFT)*	

Convergence Angle	0	58	46.2914936
Scale Factor	0.999937190		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	30.6734268
Longitude	93	40	59.9704032
Ellipsoid Height (M):	243.968		
Geoid Height (M):	-28.992		

Location Description

FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, FOLLOW THE COUNTY ROAD 9.35 MILES TO THE JCT. OF FS. RD. 1541 ON THE LEFT AND A FIELD ENTRANCE ON THE RIGHT. THE STATION IS 260 FEET FROM THE ENTRANCE TO THE FIELD AND 2.3 FEET NORTHWEST OF THE SECOND COMBINATION POLE WEST OF THE BARN.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 4" LOCUST	60	36.86	120.9
MK # 2	NBC IN COMBINATION POLE	115	56.89	186.6
MK # 3	NW CORNER OF OLD CHICKEN HOUSE	135	44.39	145.6

AZ Mark Station	91360001 AZ. MK.
Geodetic Azimuth	277 17 36
Grid Azimuth	278 16 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91360002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360003	5/6/1991	AHTD	JOHNSON	215	1648

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	149,687.0380	
Easting (M)	250,270.4050	
Elevation (M)*		
Northing (SFT)	491,098.2238	
Easting (SFT)	821,095.4871	
Elevation (SFT)*		

Convergence Angle	0	57	44.8325099
Scale Factor	0.999937084		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	16.4571852
Longitude	93	39	14.3524692
Ellipsoid Height (M):	252.285		
Geoid Height (M):	-29.010		

Location Description

FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 11.20 MILES TO THE YALE CEMETERY ENTRANCE, FOLLOW ROAD TO A FIELD ENTRANCE ON THE RIGHT, GO ACROSS FIELD TO THE THIRD COMBINATION POLE AND THE STATION. THE STATION IS 4.80 FEET FROM A WITNESS POST AND 166.98 FEET SOUTH OF THE COUNTY ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	112	116.70	382.9
MK # 2	NBC IN 24" WALNUT	112	45.11	148.0
MK # 3	NORTHEAST CORNER OF SHED	267	17.85	58.6

AZ Mark Station	91360004
Geodetic Azimuth	115 04 33
Grid Azimuth	116 02 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91360003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360004	5/6/1991	AHTD	JOHNSON	215	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	149,588.7409
Easting (M)	250,471.6020
Elevation (M)*	
Northing (SFT)	490,775.7274
Easting (SFT)	821,755.5809
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	13.3776552
Longitude	93	39	6.2873280
Ellipsoid Height (M):	247.671		
Geoid Height (M):	-29.013		

Convergence Angle	0	57	40.1394112
Scale Factor	0.999937061		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM THE JCT. OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO 11.20 MILES TO THE YALE CEMETERY ENTRANCE, FOLLOW DRIVE TO A FIELD ENTRANCE ON RIGHT, GO THROUGH FIELD

ENTRANCE TO FIRST COMBINATION POLE AND THE STATION, 7.00 FEET FROM WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" PERSIMMON	104	59.50	195.2
MK # 2	NBC IN COMBINATION POLE	19	46.23	151.7
MK # 3	NBC IN POWER POLE	342	65.81	215.9

AZ Mark Station	91360003 AZ. MK.
Geodetic Azimuth	295 04 38
Grid Azimuth	296 02 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91360004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360005	5/6/1991	AHTD	JOHNSON	215	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	151,263.1120
Easting (M)	255,743.0890
Elevation (M)*	
Northing (SFT)	496,269.0600
Easting (SFT)	839,050.4512
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	41	10.5195624
Longitude	93	35	37.7713896
Ellipsoid Height (M):	270.186		
Geoid Height (M):	-28.984		

Convergence Angle	0	55	38.8041685
Scale Factor	0.999937514		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM THE JCT OF HWY. 103 AND HWY. 215 NORTH OF CLARKSVILLE, GO RIGHT ON HWY. 215, 0.10 MILES TO GLORYLAND CHURCH. THE STATION IS SOUTHWEST OF THE CHURCH, ACROSS A FENCE, 12.85 FEET SOUTHWEST OF A DRILLED WELL, 188.79 FEET SOUTH OF THE CENTERLINE OF HWY. 215 AND 1.00 FEET NORTH OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE W/LIGHT	14	42.37	139.0
MK # 2	SOUTHWEST CORNER OF CHURCH	32	26.75	87.8
MK # 3	NBC IN POWER POLE	72	29.01	95.2

AZ Mark Station	91360006 AZ. MK.
Geodetic Azimuth	102 44 21
Grid Azimuth	103 40 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91360005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360006	5/6/1991	AHTD	JOHNSON	215	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	151,180.8560
Easting (M)	256,081.3690
Elevation (M)*	
Northing (SFT)	495,999.1917
Easting (SFT)	840,160.2915
Elevation (SFT)*	
Convergence Angle	0 55 30.9453503
Scale Factor	0.999937493
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	41	8.0283156
Longitude	93	35	24.2659248
Ellipsoid Height (M):	268.739		
Geoid Height (M):	-28.987		

Location Description

FROM THE JCT. OF HWY. 103 AND HWY. 215 NORTH OF CLARKSVILLE, GO RIGHT ON HWY. 215 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 40.15 FEET SOUTH OF THE CENTERLINE OF HWY. 215 NEAR THE R/W FENCE AND 2.50 FEET FROM A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	241	47.59	156.1
MK # 2	NBC IN 28" WALNUT	104	39.48	129.5
MK # 3	NORTHWEST CORNER OF BARN	128	20.92	68.6

AZ Mark Station	91360005
Geodetic Azimuth	282 44 29
Grid Azimuth	283 40 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91360006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360007	5/6/1991	AHTD	JOHNSON	215	1648

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	150,445.7100
Easting (M)	246,218.6340
Elevation (M)*	
Northing (SFT)	493,587.3002
Easting (SFT)	807,802.3017
Elevation (SFT)*	

Convergence Angle	0	59	18.8774393
Scale Factor	0.999937254		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	40	38.8328304
Longitude	93	41	55.9697064
Ellipsoid Height (M):	239.507		
Geoid Height (M):	-28.984		

Location Description

FROM THE JCT OF HWY. 23 AND CO. RD. 83 (FS 1003) AT CASS, GO RIGHT 8.15 MILES TO A BARN AND A FIELD ENTRANCE ON THE RIGHT, GO THROUGH GATE AND TURN RIGHT, GO TO FIRST COMBINATION POLE. THE STATION IS 5.50 FEET NORTHEAST OF THE POLE AND WITNESS POST AND 75.27 FEET FROM THE CENTERLINE OF A COUNTY ROAD.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SE CORNER OF WATER TROUGH	307	65.71	215.6
MK # 2	NBC IN COMBINATION POLE	67	2.17	7.1
MK # 3	NORTHWEST CORNER OF BARN	127	41.47	136.1

AZ Mark Station	91240005 AZ. MK.
Geodetic Azimuth	293 01 35
Grid Azimuth	294 00 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91360007

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360008	11/13/2000	AHTD	JOHNSON	164	080200

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	136,881.7980
Easting (M)	253,751.9894
Elevation (M)*	
Northing (SFT)	449,086.3656
Easting (SFT)	832,517.9852
Elevation (SFT)*	

Convergence Angle	0	56	19.4267065
Scale Factor	0.999936053		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	33	22.8768192
Longitude	93	36	47.5816644
Ellipsoid Height (M):	163.756		
Geoid Height (M):	-28.746		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 103, LOCATED ABOUT 16.10 KM (10.00 MI) NORTHWEST OF CLARKSVILLE, GO WEST ON STATE HIGHWAY 103 FOR 4.38 KM (2.72 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.75 METERS WEST OF THE CENTER OF A ROAD TO A PASTURE AND HOGAN CEMETERY, 10.65 METERS SOUTH OF THE CENTER OF STATE HIGEHWAY 164 AND 0.61 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "360008 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.162 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	87	18.20	59.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	360008A
Geodetic Azimuth	271 30 46.68121
Grid Azimuth	272 27 06.11247

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	OZARPORT
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360008A	11/13/2000	AHTD	JOHNSON	164	080200

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	136,906.6563
Easting (M)	253,171.4100
Elevation (M)*	
Northing (SFT)	449,167.9215
Easting (SFT)	830,613.2010
Elevation (SFT)*	
Convergence Angle	0 56 32.8494806
Scale Factor	0.999936052
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 33 23.3740764
Longitude	93 37 10.6488480
Ellipsoid Height (M):	166.980
Geoid Height (M):	-28.748

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 103, LOCATED ABOUT 16.10 KM (10.00 MI) NORTHWEST OF CLARKSVILLE, GO WEST ON STATE HIGHWAY 103 FOR 4.88 KM (3.03 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 164 AND 1.25 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "360008A 2000" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 581.162 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST IN LINE WOODEN POST	136	1.80	5.9
MK # 2	WEST IN LINE WOODEN POST	211	1.70	5.6
MK # 3	NONE			

AZ Mark Station	360008
Geodetic Azimuth	91 30 33.267536
Grid Azimuth	92 27 06.11247

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	OZARPORT
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360009	3/18/2002	AHTD	JOHNSON	103	080224,080314,080340

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	126,433.3360	
Easting (M)	267,575.7820	
Elevation (M)*	135.218	
Northing (SFT)	414,806.7032	
Easting (SFT)	877,871.5448	
Elevation (SFT)*	443.628	

Convergence Angle	0	50	56.4651965
Scale Factor	0.999938121		
Elevation Adjust. Factor	0.9999787803		
Combined Adjust. Factor	0.9999169026		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	27	50.8725360
Longitude	93	27	32.5687860
Ellipsoid Height (M):	106.206		
Geoid Height (M):	-29.019		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 123, LOCATED IN CLARKSVILLE, GO SOUTH ON STATE HIGHWAY 103 (ROGERS STREET) FOR 0.04 MILE TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS NORTH OF THE CENTER OF A PAVED FIELD ENTRANCE, 2.50 METERS EAST OF A CONCRETE CURB, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "360009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	40	13.65	44.8
MK # 2	MAN HOLE COVER	348	11.30	37.1
MK # 3	CENTER LINE OF CONCRETE CULVERT	5	11.25	36.9

AZ Mark Station	360009A
Geodetic Azimuth	184 13 07
Grid Azimuth	185 04 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	

Comments

Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360010	10/24/2007	AHTD	JOHNSON	64	080320

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	124,098.9841	
Easting (M)	273,738.4220	
Elevation (M)*	136.149	
Northing (SFT)	407,148.0837	
Easting (SFT)	898,090.1395	
Elevation (SFT)*	446.682	

Convergence Angle	0	48	33.4845471
Scale Factor	0.999938920		
Elevation Adjust. Factor	0.9999786342		
Combined Adjust. Factor	0.9999175555		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	26	38.0260644
Longitude	93	23	26.8549800
Ellipsoid Height (M):	107.106		
Geoid Height (M):	-29.044		

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 123, IN LAMAR, GO EAST FOR 155 FEET TO THE STATION MARK ON THE LEFT, NORTHEAST OF THE CENTERLINE OF THE HIGHWAY 54.7 FEET AND SOUTHWEST 1.50 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360010 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	134	2.59	8.5
MK # 2	GUY ANCHOR	315	17.07	56.0
MK # 3	COMBINTION POLE	131	17.68	58.0

AZ Mark Station	P 294
Geodetic Azimuth	131 11 36
Grid Azimuth	132 00 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	OKHV
Ref Mon # 3	ARHR

Comments

ELEVATIONS DETERMINED BY 3 WIRE LEVEL FROM P 294 10/24/07 BY S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360011	12/5/2008	AHTD	JOHNSON	123	080314,080340

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	126,471.8460	
Easting (M)	268,501.3380	
Elevation (M)*	127.800	
Northing (SFT)	414,933.0481	
Easting (SFT)	880,908.1398	
Elevation (SFT)*	419.291	

Convergence Angle	0	50	35.1187377
Scale Factor			0.999938104
Elevation Adjust. Factor			0.9999799444
Combined Adjust. Factor			0.9999180496

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	27	52.5654972
Longitude	93	26	55.8846636
Ellipsoid Height (M):	98.773		
Geoid Height (M):	-29.009		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123 S (EUREKA RD.) AND STATE HIGHWAY 64, EAST OF CLARKSVILLE, GO SOUTH ON HIGHWAY 123 S (EUREKA RD.) FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTH EAST OF TRINITY CHAPEL PENECOSTAL CHURCH, WEST 26.0 FEET OF THE CENTER LINE OF A DITCH, SOUTH OF THE CENTER LINE OF THE HIGHWAY AND NORTH 22.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "360011 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER TRIPLE BOC CULVERT	120	9.60	31.5
MK # 2	SE CORNER BRICK CHURCH	321	29.87	98.0
MK # 3	FIBER OPTIC CABLE MKR	249	10.06	33.0

AZ Mark Station	360011A
Geodetic Azimuth	94 58 04
Grid Azimuth	95 48 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, OKHV, SAL5
Ref Mon # 2	Q 294
Ref Mon # 3	360009

Comments

Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360011A	12/5/2008	AHTD	JOHNSON	123	080314,080340

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	126,420.2260
Easting (M)	269,008.5720
Elevation (M)*	131.168
Northing (SFT)	414,763.6915
Easting (SFT)	882,572.2900
Elevation (SFT)*	430.340
Convergence Angle	0 50 23.3954944
Scale Factor	0.999938119
Elevation Adjust. Factor	0.9999794159
Combined Adjust. Factor	0.9999175362

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 27 51.1323624
Longitude	93 26 35.7381420
Ellipsoid Height (M):	102.136
Geoid Height (M):	-29.007

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123 S (EUREKA RD.) AND STATE HIGHWAY 64, EAST OF CLARKSVILLE, GO SOUTH ON HIGHWAY 123 S (EUREKA RD.) FOR 1.4 MILES TO THE STATION MARK ON THE LEFT, WEST 112.5 FEET OF THE CENTER LINE OF PALMAR ROAD, SOUTH 51.6 FEET OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 29.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "360011A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANDT	73	19.20	63.0
MK # 2	LIGHT POLE	2	23.32	76.5
MK # 3	COMBINATION POLE W/4 GUYS	100	25.73	84.4

AZ Mark Station	360011
Geodetic Azimuth	274 58 16
Grid Azimuth	275 48 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, OKHV, SAL5
Ref Mon # 2	Q 294
Ref Mon # 3	360009

Comments

Digital levels ran by crew S5102 in March 2009 from 1st order NGS marks S 294, R 294, & L 30.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360012	2/6/2012	AHTD	JOHNSON	123	080444,080499

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	150,181.0508	0.0040
Easting (M)	287,344.0681	0.0030
Elevation (M)*	231.146	
Northing (SFT)	492,718.9975	
Easting (SFT)	942,727.9968	
Elevation (SFT)*	758.352	

Convergence Angle	0	43	27.1766298
Scale Factor	0.999937344		
Elevation Adjust. Factor	0.9999637270		
Combined Adjust. Factor	0.9999010732		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	40	50.1913884
Longitude	93	14	40.4614428
Ellipsoid Height:	202.949		
Grid Northing (Meters)	150,181.0552		
Grid Easting (Meters)	287,344.0691		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	40	50.1912444	
Longitude	93	14	40.4614824	
Ellipsoid Height (M):	202.870			0.0110
Geoid Height (M):	-28.264			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE HIGHWAY 123, IN HAGARVILLE , GO NORTH ON HIGHWAY 123 15.55 MILES TO THE MARK ON THE LEFT, 24 FEET EAST ASPHALT APRON, 18 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY . THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360011 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH EAST CORNER OF A ONE STORY FR AME HOUSE	32	12.62	41.4
MK # 2				
MK # 3				

AZ Mark Station	360011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BM TT 56 BY S5113 IN FEB 2012 DURING JOB 080444.
**********UPDATED TO NAD 83 (2011) IN AUG. OF 2016 FOR JOB # 080499
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360012A	2/6/2012	AHTD	JOHNSON	123	080444,080499

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	150,121.7066	0.0040
Easting (M)	287,602.8337	0.0030
Elevation (M)*	233.641	
Northing (SFT)	492,524.2991	
Easting (SFT)	943,576.9636	
Elevation (SFT)*	766.536	

Convergence Angle	0	43	21.1713798
Scale Factor	0.999937330		
Elevation Adjust. Factor	0.9999633355		
Combined Adjust. Factor	0.9999006678		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	40	48.3716892
Longitude	93	14	30.1412832
Ellipsoid Height:	205.432		
Grid Northing (Meters)	150,121.7034		
Grid Easting (Meters)	287,602.8364		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	40	48.3717936	
Longitude	93	14	30.1413948	
Ellipsoid Height (M):	205.355			0.0110
Geoid Height (M):	-28.264			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 123, IN HAGARVILLE , GO NORTH ON HIGHWAY 123 15.65 MILES TO THE MARK ON THE LEFT, AT THE NORTH END OF A GUARD RAIL, 18.0 FEET NORTH CENTERLINE OF THE HIGHWAY,22.5 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "360011A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	28	8.96	29.4
MK # 2				
MK # 3				

AZ Mark Station	360011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BM TT 56 BY S5113 IN FEB 2012 DURING JOB 080444.
**********UPDATED TO NAD 83 (2011) IN AUG. OF 2016 FOR JOB # 080499
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360200	2/14/2000	AHTD	JOHNSON	N/A	080176

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	119,030.1981	
Easting (M)	254,356.5290	
Elevation (M)*		
Northing (SFT)	390,518.2416	
Easting (SFT)	834,501.3789	
Elevation (SFT)*		

Convergence Angle	0	55	58.7432782
Scale Factor	0.999941329		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	23	44.0033064
Longitude	93	36	12.0369672
Ellipsoid Height (M):	75.420		
Geoid Height (M):	-29.319		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	SALLISAW 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360201	2/14/2000	AHTD	JOHNSON	N/A	080176

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	119,107.4400	
Easting (M)	252,754.1410	
Elevation (M)*		

Northing (SFT)	390,771.6594	
Easting (SFT)	829,244.2109	
Elevation (SFT)*		

Convergence Angle	0	56	35.7192814
Scale Factor	0.999941303		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	23	45.6581184
Longitude	93	37	15.5806320
Ellipsoid Height (M):	77.284		
Geoid Height (M):	-29.327		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	SALLISAW 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360206	2/14/2000	AHTD	JOHNSON	N/A	080176

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	118,980.8680	
Easting (M)	255,259.5960	
Elevation (M)*		
Northing (SFT)	390,356.3978	
Easting (SFT)	837,464.1912	
Elevation (SFT)*		

Convergence Angle	0	55	37.9025214
Scale Factor	0.999941347		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	23	42.8784540
Longitude	93	35	36.2218992
Ellipsoid Height (M):	75.542		
Geoid Height (M):	-29.314		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	SALLISAW 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360207	2/14/2000	AHTD	JOHNSON	N/A	080176

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	118,939.9031	
Easting (M)	256,053.7180	
Elevation (M)*		
Northing (SFT)	390,221.9988	
Easting (SFT)	840,069.5731	
Elevation (SFT)*		

Convergence Angle	0	55	19.5770016
Scale Factor	0.999941361		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	23	41.9651772
Longitude	93	35	4.7292936
Ellipsoid Height (M):	81.758		
Geoid Height (M):	-29.310		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	SALLISAW 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360218	2/14/2000	AHTD	JOHNSON	N/A	080176

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	120,640.0831	
Easting (M)	254,438.4470	
Elevation (M)*		
Northing (SFT)	395,800.0060	
Easting (SFT)	834,770.1382	
Elevation (SFT)*		

Convergence Angle	0	55	57.4587326
Scale Factor	0.999940531		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	24	36.2797164
Longitude	93	36	9.8294616
Ellipsoid Height (M):	78.053		
Geoid Height (M):	-29.280		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	SALLISAW 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360219	9/24/2012	S5112	Johnson	64	080437

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	126,375.4474	
Easting (M)	261,706.1859	
Elevation (M)*	121.084	
Northing (SFT)	414,616.7803	
Easting (SFT)	858,614.3782	
Elevation (SFT)*	397.255	

Convergence Angle	0	53	11.8986955
Scale Factor	0.999938170		
Elevation Adjust. Factor	0.9999809984		
Combined Adjust. Factor	0.9999191696		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	27	46.1095524
Longitude	93	31	25.3127316
Ellipsoid Height (M):	92.021		
Geoid Height (M):	-29.062		

Location Description

To reach the station mark from the junction of I 40 and State Hwy 64 (west Main Street), South West of Clarksville, go west on Hwy 64 0.2 miles to the mark on the left, South West 32.5' of the center line, and North West 1.7' of a witness post. The mark is a standard 2.5" cap stamped "360219 2012" on top of a 4' rebar driven below the surface of the ground.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Light Pole	50	24.38	80.0
MK # 2	SW corner Brick Building	97	30.11	98.8
MK # 3	Nite Lite Outdoor Sign	210	20.73	68.0

AZ Mark Station	362019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARLR
Ref Mon # 3	ARHR

Comments

ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437.
*NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360219A	9/24/2012	S5112	Johnson	64	080437

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	126,095.2662	
Easting (M)	261,246.4780	
Elevation (M)*	116.681	
Northing (SFT)	413,697.5525	
Easting (SFT)	857,106.1532	
Elevation (SFT)*	382.810	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	27	36.7877412	
Longitude	93	31	43.3712244	
Ellipsoid Height (M):	87.607			
Geoid Height (M):	-29.074			

Convergence Angle	0	53	22.4069168
Scale Factor	0.999938266		
Elevation Adjust. Factor	0.9999816893		
Combined Adjust. Factor	0.9999199565		

Location Description

To reach the station mark from the junction of I 40 and State Hwy 64 (west Main Street), South West of Clarksville, go west on Hwy 64 0.5 miles to the mark on the Right, North West 28.2' of the center line and 52.5' South West of an asphalt drive. The mark is a standard 2.5" cap stamped "360219A 2012" on top of a 4' rebar driven below the surface of the ground.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Gas Meter	272	9.14	30.0
MK # 2	Combination Pole with Guy	245	13.56	44.5
MK # 3				

AZ Mark Station	360219
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARLR
Ref Mon # 3	ARHR

Comments

ELEV. DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BENCHMARKS W 294 & X 294 BY S5112 SEPT. 2012 FOR JOB #080437.
*NOTE: ELEV. DERIVED FROM DIGITAL LEVELS WAS USED AS A CONSTRAINT ON THIS MONUMENT IN THE FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360220	3/12/2015	AHTD	JOHNSON	64	080497

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	116,129.1613	0.0030
Easting (M)	276,892.7685	0.0030
Elevation (M)*	116.006	
Northing (SFT)	381,000.4234	
Easting (SFT)	908,439.0247	
Elevation (SFT)*	380.597	

Convergence Angle	0	47	18.1770180	
Scale Factor	0.999942729			
Elevation Adjust. Factor	0.9999817952			
Combined Adjust. Factor	0.9999245252			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	35	22	20.8611912
Longitude	93	21	17.4381696
Ellipsoid Height (M):	86.706	0.0060	
Geoid Height (M):	-29.302	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 315 AND STATE HIGHWAY 64, EAST OF KNOXVILLE, GO EAST ON HIGHWAY 64 FOR 0.85 MILES TO THE MARK ON THE RIGHT, 44 FOOT SOUTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 360220" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	G 294
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	P777

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM G 294 IN MARCH OF 2015 FOR JOB #080497.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360221	7/27/2016	AHTD	JOHNSON	123	080499

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,699.4617	0.0040
Easting (M)	285,195.6969	0.0030
Elevation (M)*	299.976	

Northing (SFT)	487,858.1506	
Easting (SFT)	935,679.5489	
Elevation (SFT)*	984.170	

Convergence Angle	0	44	16.4489964
Scale Factor	0.999936975		
Elevation Adjust. Factor	0.9999529263		
Combined Adjust. Factor	0.9998899042		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	40	1.2307836
Longitude	93	16	5.1365820
Ellipsoid Height (M):	271.645	0.0120	
Geoid Height (M):	-28.286	0.0120	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123N AND STATE HIGHWAY 164E, IN HARGARVILLE, GO NORTH ON 123 FOR 13.45 MILES TO THE MARK ON THE LEFT AND WEST 31.8 FEET OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 3600221" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF GUARDRAIL	150	106.00	347.8
MK # 2				
MK # 3				

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM TT 56 BY S5112 IN AUG. OF 2016 FOR JOB # 080499.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360222	8/16/2016	AHTD	JOHNSON	123	080499

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	150,064.9604	0.0040
Easting (M)	285,967.3250	0.0040
Elevation (M)*	249.867	
Northing (SFT)	492,338.1242	
Easting (SFT)	938,211.1321	
Elevation (SFT)*	819.771	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	40	45.8565348	
Longitude	93	15	35.1511992	
Ellipsoid Height (M):	221.562			0.0110
Geoid Height (M):	-28.265			0.0110

Convergence Angle	0	43	59.0005283
Scale Factor	0.999937310		
Elevation Adjust. Factor	0.9999607893		
Combined Adjust. Factor	0.9998981018		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 123N AND STATE HIGHWAY 164E, IN HARGARVILLE, GO NORTH ON 123 FOR 14.5 MILES TO THE MARK ON THE RIGHT AND WEST 35 FEET OF THE CENTER LINE OF THE DRIVE TO HAW CREEK FALLS AND SOUTH 17.6' OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 360222" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH OF NORTH EDGE OF HAW CR FALL S SIGN	150	14.80	48.6
MK # 2	SOUTH END OF FLARED CMP	70	27.00	88.6
MK # 3				

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM TT 56 BY S5112 IN AUG. OF 2016 FOR JOB # 080499.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360223	9/25/2019	ARDOT	JOHNSON	103	080617

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	151,231.9485	0.0020
Easting (M)	255,335.2812	0.0020
Elevation (M)*		
Northing (SFT)	496,166.8177	
Easting (SFT)	837,712.5017	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	41	9.2940072	
Longitude	93	35	53.9688480	
Ellipsoid Height (M):	267.856			0.0090
Geoid Height (M):	-28.349			0.0090

Convergence Angle	0	55	48.2294554
Scale Factor	0.999937504		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215, SOUTH OF OARK, GO SOUTH ON HIGHWAY 103 0.15 MILES TO THE MARK ON THE RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 18.3'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 360223" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	360223A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360223A	9/25/2019	ARDOT	JOHNSON	215	080617

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	151,308.6517	0.0020
Easting (M)	255,717.7886	0.0020
Elevation (M)*		
Northing (SFT)	496,418.4681	
Easting (SFT)	838,967.4448	
Elevation (SFT)*		

Convergence Angle	0	55	39.4067022
Scale Factor	0.999937527		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	41	11.9837580
Longitude	93	35	38.8068504
Ellipsoid Height (M):	271.040	0.0090	
Geoid Height (M):	-28.344	0.0090	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215, SOUTH OF OARK, GO NORTH ON HIGHWAY 215 0.1 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 21.2 AND 96.5' WEST OF A DRIVEWAY'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 360223A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	233	17.22	56.5
MK # 2	FENCE CORNER	240	24.54	80.5
MK # 3	NORTH END OF FENCE	107	12.68	41.6

AZ Mark Station	360223
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360224	10/29/2024	ARDOT	JOHNSON	CR 5440	FA3611

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	149,510.4594	0.0010
Easting (M)	264,406.9312	0.0010
Elevation (M)*		
Northing (SFT)	490,518.8989	
Easting (SFT)	867,475.0734	
Elevation (SFT)*		

Convergence Angle	0	52	17.6957680
Scale Factor	0.999937096		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	35	40	18.0695136
Longitude	93	29	52.1644092
Ellipsoid Height (M):	328.198	0.0030	
Geoid Height (M):	-28.327	0.0030	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215 NEAR OARK GO 6.8 MILES EAST ON JOHNSON COUNTY ROAD 5440 TO THE LANGDON FARM DRIVEWAY ON THE RIGHT. THE MARK IS LOCATED IN THE FIELD FARTHEST TO THE SOUTHWEST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2024 360224" SET ON TOP OF A 4' BY 5/8" REBAR DRIVEN 0.10" BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FE COR POST	240	36.14	118.6
MK # 2				
MK # 3				

AZ Mark Station	360224A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	AROZ, ARRV

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS SITES ARFY, ARHR, AROZ & ARRV BY S5103 IN OCT. 2024 FOR JOB #FA3611

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
360224A	10/29/2024	ARDOT	JOHNSON	CR 5440	FA3611

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	149,635.1264	0.0010
Easting (M)	264,609.6983	0.0010
Elevation (M)*		

Northing (SFT)	490,927.9105	
Easting (SFT)	868,140.3185	
Elevation (SFT)*		

Convergence Angle	0	52	13.0481671
Scale Factor			0.999937126
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	35	40	22.2142764
Longitude	93	29	44.1774564
Ellipsoid Height (M):	338.468		0.0030
Geoid Height (M):	-28.322		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 103 AND STATE HIGHWAY 215 NEAR OARK GO 6.8 MILES EAST ON JOHNSON COUNTY ROAD 5440 TO THE LANGDON FARM DRIVEWAY ON THE RIGHT. THE MARK IS LOCATED IN THE FIELD FARTHEST TO THE NORTHEAST.THE MARK IS 55.5' NE OF WEBWIRE FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2024 360224A" SET ON TOP OF A 4' BY 5/8" REBAR DRIVEN 0.10" BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	186	30.48	100.0
MK # 2	DROP POLE	263	20.33	66.7
MK # 3	GATE POST	130	20.30	66.6

AZ Mark Station	360224
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	AROZ, ARRV

Comments

STATIC DERIVED ELEV. BASED ON VERTICAL CONSTRAINTS ON ARDOT CORS SITES ARFY, ARHR, AROZ & ARRV BY S5103 IN OCT. 2024 FOR JOB #FA3611

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370001	4/14/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	477,558.7771	
Easting (M)	243,220.8840	
Elevation (M)*	69.901	
Northing (SFT)	1,566,790.7545	
Easting (SFT)	797,967.1836	
Elevation (SFT)*	229.334	

Convergence Angle	0	56	34.0389353	
Scale Factor	0.999988407			
Elevation Adjust. Factor	0.9999890304			
Combined Adjust. Factor	0.9999774375			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	21	15.5068380	
Longitude	93	41	4.1333064	
Ellipsoid Height (M):	42.630			
Geoid Height (M):	-27.271			

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 ON THE WEST EDGE OF GARLAND CITY, GO EAST ON HWY. 82 FOR 3.70 KM (2.30 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.8 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 11.20 METERS WEST OF THE CENTER OF A PAVED STREET, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370001A
Geodetic Azimuth	302 12 25.42162
Grid Azimuth	303 08 59.56815

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	GARLAND

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370001A	4/14/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	477,923.4011	
Easting (M)	242,662.6140	
Elevation (M)*	70.466	
Northing (SFT)	1,567,987.0251	
Easting (SFT)	796,135.5928	
Elevation (SFT)*	231.187	

Convergence Angle	0	56	46.2528164
Scale Factor	0.999987751		
Elevation Adjust. Factor	0.9999889417		
Combined Adjust. Factor	0.9999766928		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	27.0418284
Longitude	93	41	25.9558620
Ellipsoid Height (M):	43.188		
Geoid Height (M):	-27.278		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO EAST ON HWY. 82 FOR 2.98 KM (1.85 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 23.5 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 5.20 METERS EAST OF A PAVED FIELD ENTRANCE AND 1.0 METERS NORTHEAST OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN FENCE BRACE POST	158	1.85	6.1
MK # 2	NBC IN GATE POST	297	10.25	33.6
MK # 3	NONE			

AZ Mark Station	370001
Geodetic Azimuth	122 12 13.42275
Grid Azimuth	123 08 59.56815

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	GARLAND

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370002	4/14/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	477,882.2721	
Easting (M)	247,646.1750	
Elevation (M)*	70.590	
Northing (SFT)	1,567,852.0877	
Easting (SFT)	812,485.8258	
Elevation (SFT)*	231.594	

Convergence Angle	0	54	58.3663932
Scale Factor	0.999987677		
Elevation Adjust. Factor	0.9999889222		
Combined Adjust. Factor	0.9999765994		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	28.3358988
Longitude	93	38	13.1950644
Ellipsoid Height (M):	43.347		
Geoid Height (M):	-27.243		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO EAST ON HWY. 82 FOR 8.21 KM (5.10 MILES) TO THE STATION ON THE LEFT BEHIND THE GUARD RAIL ON THE NORTHEAST END OF THE BRIDGE. THE STATION IS 6.40 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.10 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST END OF BRIDGE	240	4.15	13.6
MK # 2	NORTHEASTERN MOST GUARD RAIL POST	80	12.35	40.5
MK # 3	NONE			

AZ Mark Station	370002A
Geodetic Azimuth	83 27 09.518167
Grid Azimuth	84 22 07.804441

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	GARLAND

Comments

RECOVERED 7/10/2000 BY S5111

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370002A	4/14/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	477,923.9261
Easting (M)	248,068.6280
Elevation (M)*	70.671
Northing (SFT)	1,567,988.7475
Easting (SFT)	813,871.8237
Elevation (SFT)*	231.860

Convergence Angle	0	54	49.2364772
Scale Factor	0.999987588		
Elevation Adjust. Factor	0.9999889095		
Combined Adjust. Factor	0.9999764977		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	29.9067300
Longitude	93	37	56.8826328
Ellipsoid Height (M):	43.431		
Geoid Height (M):	-27.240		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO EAST ON HWY. 82 FOR 8.61 KM (5.35 MILES) TO THE STATION ON THE LEFT BEHIND THE GUARD RAIL ON THE NORTHEASTERN MOST END OF THE BRIDGE. THE STATION IS 6.50 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 0.65 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370002A" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST BRIDGE CORNER	245	7.90	25.9
MK # 2	NORTHEASTERN MOST GUARD RAIL POST	80	4.55	14.9
MK # 3	NONE			

AZ Mark Station	370002
Geodetic Azimuth	263 27 18.48788
Grid Azimuth	264 22 07.80444

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	GARLAND

Comments

RECOVERED 7/10/2000 BY S5111

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370003	4/14/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	477,680.3011	
Easting (M)	252,048.4710	
Elevation (M)*	83.564	
Northing (SFT)	1,567,189.4545	
Easting (SFT)	826,929.0253	
Elevation (SFT)*	274.160	

Convergence Angle	0	53	23.0070532
Scale Factor	0.999987922		
Elevation Adjust. Factor	0.9999868863		
Combined Adjust. Factor	0.9999748084		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	24.0328368
Longitude	93	35	22.8164208
Ellipsoid Height (M):	56.354		
Geoid Height (M):	-27.210		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO WEST ON HWY. 82 FOR 1.29 KM (0.80 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 25.60 METERS NORTH OF THE CENTERLINE OF HWY. 82, 15.0 METERS SOUTH OF THE CENTER OF A PAVED STREET AND 1.14 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370003" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	332	26.10	85.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370003A
Geodetic Azimuth	100 36 25.01276
Grid Azimuth	101 29 47.87765

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	GARLAND

Comments

NOT FOUND 7/10/2000 BY S5111

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370003A	4/14/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	477,528.9472
Easting (M)	252,792.6270
Elevation (M)*	82.080
Northing (SFT)	1,566,692.8876
Easting (SFT)	829,370.4771
Elevation (SFT)*	269.291

Convergence Angle	0	53	6.8487457
Scale Factor			0.999988180
Elevation Adjust. Factor			0.9999871191
Combined Adjust. Factor			0.9999752993

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	19.4947668
Longitude	93	34	53.9463540
Ellipsoid Height (M):	54.876		
Geoid Height (M):	-27.204		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO WEST ON HWY. 82 FOR 0.48 KM (0.30 MILES) TO THE STATION ON THE LEFT SOUTHWEST AND ACROSS THE HIGHWAY FROM THE LEWISVILLE MUNICIPAL BUILDING. THE STATION IS 13.0 METERS SOUTH OF THE CENTER LINE OF HWY. 82, 6.0 METERS EAST OF A PAVED PULL-OFF, 13.5 METERS NORTH OF THE NORTH RAIL OF A RAILROAD TRACK AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370003A" SET ON TOP OF A3/4" REBAR THAT IS 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	250	13.30	43.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370003
Geodetic Azimuth	280 36 40.88667
Grid Azimuth	281 29 47.87765

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	GARLAND

Comments

NOT FOUND 7/10/2000 BY S5111

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370004	4/14/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	477,895.1331
Easting (M)	255,039.1990
Elevation (M)*	98.776
Northing (SFT)	1,567,894.2825
Easting (SFT)	836,741.1054
Elevation (SFT)*	324.068

Convergence Angle	0	52	18.3415466
Scale Factor			0.999987441
Elevation Adjust. Factor			0.9999844991
Combined Adjust. Factor			0.9999719403

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	32.4973980
Longitude	93	33	27.2784852
Ellipsoid Height (M):	71.585		
Geoid Height (M):	-27.191		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO EAST ON HWY. 82 FOR 1.93 KM (1.20 MILES) TO THE STATION ON THE LEFT ON TOP OF A HIGH BANK ABOUT 3.0 METERS ABOVE THE ROAD SURFACE. THE STATION IS 21.4 METERS NORTH OF THE CENTERLINE OF HWY. 82, 12.55 METERS SOUTH OF A FENCE AND 1.0 METER SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370004" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	19	24.30	79.7
MK # 2	NBC IN FENCE POST	320	12.55	41.2
MK # 3	NONE			

AZ Mark Station	370004A
Geodetic Azimuth	230 04 43.54568
Grid Azimuth	230 57 01.93588

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	BEECH

Comments

NOT FOUND 7/10/2000 BY S5111

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370004A	4/14/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	477,684.6641
Easting (M)	254,779.7500
Elevation (M)*	92.994
Northing (SFT)	1,567,203.7688
Easting (SFT)	835,889.8965
Elevation (SFT)*	305.098

Convergence Angle	0	52	23.8881966
Scale Factor			0.999987836
Elevation Adjust. Factor			0.9999854064
Combined Adjust. Factor			0.9999732426

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	25.5383568
Longitude	93	33	37.1886912
Ellipsoid Height (M):	65.803		
Geoid Height (M):	-27.191		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 29 IN LEWISVILLE, GO EAST ON HWY. 82 FOR 1.61 KM (1.0 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.4 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 82 AND 2.2 METERS NORTH OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370004A" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370004
Geodetic Azimuth	50 04 38.096363
Grid Azimuth	50 57 01.935875

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	BEECH

Comments

REBAR BENT, CAP MISSING 7/10/2000 BY S5111

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370005	4/20/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	478,435.5391	
Easting (M)	262,765.2780	
Elevation (M)*	85.728	
Northing (SFT)	1,569,667.2645	
Easting (SFT)	862,089.0829	
Elevation (SFT)*	281.259	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	21	53.7504120	
Longitude	93	28	28.7669748	
Ellipsoid Height (M):	58.617			
Geoid Height (M):	-27.146			

Convergence Angle	0	49	31.2674344	
Scale Factor	0.999986242			
Elevation Adjust. Factor	0.9999865467			
Combined Adjust. Factor	0.9999727888			

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 82T IN THE EASTERN PART OF STAMPS, GO EAST ON HWY. 82 FOR 1.37 KM (0.85 MILES) TO THE STATION ON THE LEFT. THE STATION IS ABOUT 120 METERS WEST OF A PAVED ROAD LEADING NORTH, 21.8 METERS NORTH OF THE CENTERLINE OF HWY. 82, 33 METERS EAST OF A PAVED DRIVEWAY AND 2.0 METERS SOUTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370005" SET ON TOP OF A3/4" REBAR 1.22 METERS LONG AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN CORNER POST OF FENCE	286	23.20	76.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370005A
Geodetic Azimuth	105 32 59.74234
Grid Azimuth	106 22 30.89235

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	BEECH

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370005A	4/20/1994	AHTD	LAFAYETTE	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	478,252.9101	
Easting (M)	263,386.7890	
Elevation (M)*	88.663	
Northing (SFT)	1,569,068.0892	
Easting (SFT)	864,128.1569	
Elevation (SFT)*	290.889	

Convergence Angle	0	49	17.7562585
Scale Factor	0.999986559		
Elevation Adjust. Factor	0.9999860861		
Combined Adjust. Factor	0.9999726453		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	48.1130172
Longitude	93	28	4.6265412
Ellipsoid Height (M):	61.572		
Geoid Height (M):	-27.140		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 82T IN EASTERN STAMPS, GO EAST ON HWY. 82 FOR 2.01 KM (1.25 MILES) TO THE STATION ON THE RIGHT IN A ROADSIDE PARK. THE STATION IS 20.2 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 20.4 METERS NORTH OF THE CENTER OF THE ROAD GOING THROUGH THE PARK AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	132	17.60	57.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370005
Geodetic Azimuth	285 33 13.01857
Grid Azimuth	286 22 30.89235

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	MAGAPORT
Ref Mon # 3	BEECH

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370006	4/20/1994	AHTD	LAFAYETTE	82	RX0018,07ST01,030343

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	477,924.5147	
Easting (M)	264,993.0009	
Elevation (M)*	96.963	
Northing (SFT)	1,567,990.6786	
Easting (SFT)	869,397.8705	
Elevation (SFT)*	318.121	

Convergence Angle	0	48	42.8847654
Scale Factor			0.999987118
Elevation Adjust. Factor			0.9999847835
Combined Adjust. Factor			0.9999719017

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	21	38.2088052
Longitude	93	27	2.3082048
Ellipsoid Height:			69.856
Grid Northing (Meters)			477,924.8451
Grid Easting (Meters)			264,993.3520

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	21	38.1979188
Longitude	93	27	2.3216040
Ellipsoid Height (M):	70.420		
Geoid Height (M):	-26.544		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 82T IN EASTERN STAMPS, GO EAST ON HWY. 82 FOR 3.70 KM (2.30 MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.8 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.20 METERS SOUTH OF A WITNESS POST SET IN A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	284	19.00	62.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

PREVIOUS ELEV. (96.962 m) FROM UNDOCUMENTED SOURCE* PREVIOUS UPDATED ELEV. (318.1244') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). **********UPDATE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370007	4/20/1994	AHTD	LAFAYETTE	82	RX0018,07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	477,729.2723
Easting (M)	267,732.7677
Elevation (M)*	81.267
Northing (SFT)	1,567,350.1209
Easting (SFT)	878,386.5887
Elevation (SFT)*	266.625

Convergence Angle	0	47	43.5181766
Scale Factor			0.999987406
Elevation Adjust. Factor			0.9999872466
Combined Adjust. Factor			0.9999746528

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	21	33.1196112
Longitude	93	25	16.2388884
Ellipsoid Height:			54.199
Grid Northing (Meters)			477,729.6091
Grid Easting (Meters)			267,733.0920

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	21	33.1085340
Longitude	93	25	16.2512508
Ellipsoid Height (M):	54.744		
Geoid Height (M):	-26.526		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 53 NORTH IN BUCKNER, GO EAST ON HWY. 82 FOR 1.37 KM (0.85 MILES) TO THE STATION ON THE LEFT. THE STATION IS 24.3 METERS NORTH OF THE CENTERLINE OF HWY. 82, 37.0 METERS WEST OF AN OLD DRIVEWAY AND 0.50 METERS SOUTH OFA WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "370007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	72	24.10	79.1
MK # 2	UNDERGROUND GAS LINE MARKER	340	12.00	39.4
MK # 3	NONE			

AZ Mark Station	140001
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

PREVIOUS ELEV. (81.310 m) FROM UNDOCUMENTED SOURCE* UPDATED VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM Q 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, T 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370008	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	448,545.3899
Easting (M)	226,802.1067
Elevation (M)*	66.177
Northing (SFT)	1,471,602.6667
Easting (SFT)	744,099.9117
Elevation (SFT)*	217.116

Convergence Angle	-1	2	18.0257115
Scale Factor			1.000053137
Elevation Adjust. Factor			0.9999896148
Combined Adjust. Factor			1.0000427512

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	5	24.7002792	
Longitude	93	51	18.7348788	
Ellipsoid Height (M):	39.781			
Geoid Height (M):	-26.457			

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 0.32 KM (0.20 MI) TO THE EAST END OF THE BRIDGE AND THE STATION ON THE LEFT. THE STATION IS 9.45 METERS EAST OF THE NORTHEAST CORNER OF THE BRIDGE, 5.80 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.259 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF A GUARD RAIL POST	242	4.05	13.3
MK # 2	PUNCH MARK IN TOP OF A GUARD RAIL POST	176	1.05	3.4
MK # 3	PUNCH MARK IN TOP OF A GUARD RAIL POST	90	5.70	18.7

AZ Mark Station	370008A
Geodetic Azimuth	78 44 18.608649
Grid Azimuth	79 46 36.482964

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370008A	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	448,648.9121	
Easting (M)	227,376.1251	
Elevation (M)*	64.182	
Northing (SFT)	1,471,942.3058	
Easting (SFT)	745,983.1704	
Elevation (SFT)*	210.570	

Convergence Angle	-1	2	5.6800689
Scale Factor			1.000052845
Elevation Adjust. Factor			0.9999899279
Combined Adjust. Factor			1.0000427723

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	5	28.3969464
Longitude	93	50	56.6769048
Ellipsoid Height (M):	37.803		
Geoid Height (M):	-26.456		

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS NORTH OF THE CENTER OF STATE HIGWAY 160 AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370008A SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 583.259 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370008
Geodetic Azimuth	258 44 30.65155
Grid Azimuth	259 46 36.48296

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370009	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	450,531.7246
Easting (M)	230,709.1152
Elevation (M)*	67.472
Northing (SFT)	1,478,119.4998
Easting (SFT)	756,918.1555
Elevation (SFT)*	221.365
Convergence Angle	-1 0 54.4804124
Scale Factor	1.000047911
Elevation Adjust. Factor	0.9999894115
Combined Adjust. Factor	1.0000373220

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 6 31.4351928
Longitude	93 48 49.4643960
Ellipsoid Height (M):	41.048
Geoid Height (M):	-26.459

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 4.86 KM (3.02 MI) TO THE STATION ON THE LEFT SET ON TOP OF A LEVEE. THE STATION IS 20.17 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 ANS 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 785.325 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370009A
Geodetic Azimuth	181 32 24.35644
Grid Azimuth	182 33 18.84234

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370009A	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	449,747.1467
Easting (M)	230,674.1020
Elevation (M)*	62.997
Northing (SFT)	1,475,545.4305
Easting (SFT)	756,803.2830
Elevation (SFT)*	206.683

Convergence Angle	-1	0	54.9360025
Scale Factor			1.000049894
Elevation Adjust. Factor			0.9999901138
Combined Adjust. Factor			1.0000400073

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	6	5.9530392	
Longitude	93	48	50.2783992	
Ellipsoid Height (M):	36.605			
Geoid Height (M):	-26.452			

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 4.86 KM (3.02 MI) TO THE JUNCTION OF COUNTY ROAD 57 ON THE RIGHT, TURN RIGHT AND GO SOUTH ON COUNTY ROAD 57 FOR 0.77 KM (0.48 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.90 METERS EAST OF THE CENTER OF COUNTY ROAD 57 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 785.325 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370009
Geodetic Azimuth	1 32 23.911844
Grid Azimuth	2 33 18.842339

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370010	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	452,836.1058	
Easting (M)	234,025.2755	
Elevation (M)*	63.853	
Northing (SFT)	1,485,679.7904	
Easting (SFT)	767,797.9247	
Elevation (SFT)*	209.490	

Convergence Angle	0	59	43.7732507	
Scale Factor	1.000042033			
Elevation Adjust. Factor	0.9999899795			
Combined Adjust. Factor	1.0000320121			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	7	48.1084608	
Longitude	93	46	43.1318280	
Ellipsoid Height (M):	37.401			
Geoid Height (M):	-26.465			

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 9.33 KM (5.80 MI) TO THE STATION ON THE LEFT. THE STATION IS ABOUT 70 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 160, 28.00 METERS EAST OF THE CENTER OF A PAVED ROAD, 6.65 METERS SOUTH OF THE CENTER OF A PAVED ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370010 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 836.799 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370010A
Geodetic Azimuth	91 00 35.395814
Grid Azimuth	92 00 18.956836

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370010A	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	452,806.8243
Easting (M)	234,861.5837
Elevation (M)*	63.471
Northing (SFT)	1,485,583.7227
Easting (SFT)	770,541.7125
Elevation (SFT)*	208.239

Convergence Angle	0	59	25.7081251
Scale Factor			1.000042069
Elevation Adjust. Factor			0.9999900394
Combined Adjust. Factor			1.0000321079

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	7	47.6285988
Longitude	93	46	10.8548472
Ellipsoid Height (M):	37.074		
Geoid Height (M):	-26.460		

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 10.3 KM (6.4 MI) TO THE RED RIVER BAPTIST CHURCH AND THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST OF THE CENTER OF THE EAST ENTRANCE TO THE CHURCH, 8.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 160 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370010A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 836.799 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	89	15.20	49.9
MK # 2	EAST END OF RCP	237	5.25	17.2
MK # 3	GAS METER	258	1.85	6.1

AZ Mark Station	370010
Geodetic Azimuth	271 00 53.03647
Grid Azimuth	272 00 18.95684

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370011	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	452,205.4258	
Easting (M)	239,082.3182	
Elevation (M)*	64.454	
Northing (SFT)	1,483,610.6345	
Easting (SFT)	784,389.2390	
Elevation (SFT)*	211.462	

Convergence Angle	0	57	54.3717719
Scale Factor	1.000043374		
Elevation Adjust. Factor	0.9999898852		
Combined Adjust. Factor	1.0000332588		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	7	30.4488984
Longitude	93	43	27.6640788
Ellipsoid Height (M):	38.067		
Geoid Height (M):	-26.430		

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 14.92 KM (9.27 MI) TO THE BUMPHAM BAPTIST CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS EAST OF THE CENTER OF STATE HIGHWAY 160, 8.30 METERS SOUTH OF A GRAVEL ROAD AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.934 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	275	1.00	3.3
MK # 2	SOUTH END OF CMP	13	4.45	14.6
MK # 3	NONE			

AZ Mark Station	370011A
Geodetic Azimuth	164 49 08.27583
Grid Azimuth	165 47 02.62085

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370011A	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	451,817.7208
Easting (M)	239,180.5375
Elevation (M)*	64.938
Northing (SFT)	1,482,338.6390
Easting (SFT)	784,711.4801
Elevation (SFT)*	213.050

Convergence Angle	0	57	52.1106240
Scale Factor	1.000044331		
Elevation Adjust. Factor	0.9999898092		
Combined Adjust. Factor	1.0000341398		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	7	17.9201136
Longitude	93	43	23.6240832
Ellipsoid Height (M):	38.566		
Geoid Height (M):	-26.426		

Location Description

TO REACH THE STATION FROM THE CENTER OF THE RED RIVER BRIDGE ON STATE HIGHWAY 160, LOCATED AT THE MILLER AND LAFAYETTE COUNTY LINE, GO EAST ON STATE HIGHWAY 160 FOR 15.35 KM (9.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 160 AND 0.96 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 399.934 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	169	24.01	78.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370011
Geodetic Azimuth	344 49 10.48346
Grid Azimuth	345 47 02.62085

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370012	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	450,070.1644
Easting (M)	241,576.8308
Elevation (M)*	78.008
Northing (SFT)	1,476,605.1977
Easting (SFT)	792,573.3190
Elevation (SFT)*	255.931

Convergence Angle	0	56	59.7584453
Scale Factor	1.000048604		
Elevation Adjust. Factor	0.9999877582		
Combined Adjust. Factor	1.0000363616		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	6	22.5047232
Longitude	93	41	50.0863848
Ellipsoid Height (M):	51.612		
Geoid Height (M):	-26.393		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 5.36 KM (3.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.15 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 506.305 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS FROM USC&GS BENCH MARK K 199 BY CREW S5102.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370012A
Geodetic Azimuth	90 49 15.661221
Grid Azimuth	91 46 15.287894

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370012A	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	450,054.5174
Easting (M)	242,082.9086
Elevation (M)*	78.081
Northing (SFT)	1,476,553.8625
Easting (SFT)	794,233.6760
Elevation (SFT)*	256.171

Convergence Angle	0	56	48.8305453
Scale Factor			1.000048622
Elevation Adjust. Factor			0.9999877467
Combined Adjust. Factor			1.0000363681

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	6	22.2688116
Longitude	93	41	30.5614932
Ellipsoid Height (M):	51.743		
Geoid Height (M):	-26.390		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 160 AND 1.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370012A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 506.305 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370012
Geodetic Azimuth	270 49 26.32558
Grid Azimuth	271 46 15.28789

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370013	6/6/2000	AHTD	LAFAYETTE	160	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	449,075.1284
Easting (M)	245,488.7046
Elevation (M)*	78.875
Northing (SFT)	1,473,340.6504
Easting (SFT)	805,407.5250
Elevation (SFT)*	258.776
Convergence Angle	0 55 34.9835014
Scale Factor	1.000050964
Elevation Adjust. Factor	0.9999876221
Combined Adjust. Factor	1.0000385854

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 5 52.2908988
Longitude	93 39 18.6188940
Ellipsoid Height (M):	52.552
Geoid Height (M):	-26.361

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160 LOCATED IN BRADLEY, GO WEST ON STATE HIGHWAY 160 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.30 METERS NORTH OF THE CENTER OF STATE HIGWAY 160, 9.15 METERS WEST OF THE WEST RAIL AND 1.23 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "370013 2000" SET ON TOP OF AN IRON ROD 0.82 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 694.689 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370013A
Geodetic Azimuth	188 37 58.71861
Grid Azimuth	189 33 33.72956

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370013A	6/6/2000	AHTD	LAFAYETTE	29	030182

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	448,390.0532
Easting (M)	245,373.3324
Elevation (M)*	77.377
Northing (SFT)	1,471,093.0329
Easting (SFT)	805,029.0080
Elevation (SFT)*	253.861

Convergence Angle	0	55	37.2340510
Scale Factor	1.000052719		
Elevation Adjust. Factor	0.9999878572		
Combined Adjust. Factor	1.0000405755		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	5	29.9969376	
Longitude	93	39	22.6399536	
Ellipsoid Height (M):	51.082			
Geoid Height (M):	-26.354			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29 AND STATE HIGHWAY 160, LOCATED IN BRADLEY, GO SOUTH ON STATE HIGHWAY 29 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.52 METERS WEST OF THE CENTER OF STATE HIGHWAY 29, 6.40 METERS EAST OF THE CENTER OF A PAVED ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "370013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 694.689 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	370013
Geodetic Azimuth	8 37 56.523014
Grid Azimuth	9 33 33.729559

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOSS
Ref Mon # 2	X 303
Ref Mon # 3	AHTD HOPE 1

Comments

ELEVATION BASED ON NGS POINTS H 199, J 199, K 199, L 199, P 199, Q 199, P 259, WALNUT RM 2

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370014	6/25/2007	AHTD	LAFAYETTE	29	030348

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	483,910.7631	
Easting (M)	252,350.3770	
Elevation (M)*	114.378	
Northing (SFT)	1,587,630.5619	
Easting (SFT)	827,919.5285	
Elevation (SFT)*	375.254	

Convergence Angle	0	53	18.5636099
Scale Factor	0.999976891		
Elevation Adjust. Factor	0.9999820507		
Combined Adjust. Factor	0.9999589421		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	46.3947192
Longitude	93	35	14.8773156
Ellipsoid Height (M):	87.696		
Geoid Height (M):	-26.682		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 82 AND ARKANSAS STATE HIGHWAY 29, IN LEWISVILLE, GO NORTH ON HIGHWAY 29 3.95 MILES TO THE STATION MARK ON THE RIGHT, SOUTH OF THE CENTERLINE OF COUNTY ROAD 309 121.0 FEET, EAST OF THE CENTLINE OF THE HIGHWAY 42.0 FEET AND WEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STAANDARD 2 1/2 INCH CAP STAMPED "370014 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	370014A
Geodetic Azimuth	333 56 51
Grid Azimuth	334 50 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370014A	6/25/2007	AHTD	LAFAYETTE	29	030348

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	484,430.2531
Easting (M)	252,106.3210
Elevation (M)*	114.432
Northing (SFT)	1,589,334.9220
Easting (SFT)	827,118.8215
Elevation (SFT)*	375.433
Convergence Angle	0 53 24.0245910
Scale Factor	0.999976021
Elevation Adjust. Factor	0.9999820422
Combined Adjust. Factor	0.9999580636

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 25 3.1318536
Longitude	93 35 24.6344568
Ellipsoid Height (M):	87.743
Geoid Height (M):	-26.689

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 82 AND ARKANSAS STATE HIGHWAY 29, IN LEWISVILLE, GO NORTH ON HIGHWAY 29 4.3 MILES TO THE STATION MARK ON THE RIGHT, EAST OF THE CENTLINE OF THE HIGHWAY 42.0 FEET AND WEST 7.0 FEET OF A WITNESS POST. THE STATION MARK IS A STAANDARD 2 1/2 INCH CAP STAMPED "370014A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	159	41.15	135.0
MK # 2				
MK # 3				

AZ Mark Station	370014
Geodetic Azimuth	153 56 45
Grid Azimuth	154 50 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

3 WIRE LEVELS FROM 1st ORDER NGS MARK A 203 TO 2nd ORDER NGS MARK C 63 BY S5102 9/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370015	9/13/2011	AHTD	LAFAYETTE	82	030343,07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	478,548.7049	
Easting (M)	260,200.2478	
Elevation (M)*	82.056	
Northing (SFT)	1,570,038.5427	
Easting (SFT)	853,673.6463	
Elevation (SFT)*	269.213	

Convergence Angle	0	50	26.8309270
Scale Factor	0.999986104		
Elevation Adjust. Factor	0.9999871228		
Combined Adjust. Factor	0.9999732270		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	21	56.2127508
Longitude	93	30	8.0423316
Ellipsoid Height (M):	55.475		
Geoid Height (M):	-26.582		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 53N, IN BUCKNER, GO WEST ON HIGHWAY 82 3.9 MILES TO THE STATION MARK ON THE LEFT, SOUTH 40.2 FEET OF THE CENTERLINE HIGHWAY 82 AND NORTH 1 FOOT OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370015 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

PREVIOUS ELEV. (269.2135') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM NGS STAMPS RM 1 AND CHECKED BY STATIC GPS USING T 202, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). **********UPDATED ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370015A	9/13/2011	AHTD	LAFAYETTE	82	030343,07ST01

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	478,543.0043	
Easting (M)	260,863.6792	
Elevation (M)*	95.623	
Northing (SFT)	1,570,019.8399	
Easting (SFT)	855,850.2542	
Elevation (SFT)*	313.725	

Convergence Angle	0	50	12.4670935
Scale Factor	0.999986097		
Elevation Adjust. Factor	0.9999849938		
Combined Adjust. Factor	0.9999710910		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	21	56.3429772
Longitude	93	29	42.3784536
Ellipsoid Height (M):	69.046		
Geoid Height (M):	-26.577		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 53N, IN BUCKNER, GO WEST ON HIGHWAY 82 3.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 29.5 FEET OF THE CENTERLINE OF OPERA STREET, NORTH 25.6 FEET OF THE CENTERLINE HIGHWAY 82 AND SOUTH 4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370015A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	66	3.20	10.5
MK # 2	TELEPHONE BOX	245	1.65	5.4
MK # 3	SOUTHEAST CORNER 1-S-F HOUSE	325	8.17	26.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

PREVIOUS ELEV. (313.7220') BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM NGS STAMPS RM 1 AND CHECKED BY STATIC GPS USING T 202, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING). **********UPDATED ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370016	5/8/2012	AHTD	LAFAYETTE	82	07ST01,030343

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	477,962.8401	
Easting (M)	264,637.2603	
Elevation (M)*	98.001	
Northing (SFT)	1,568,116.4179	
Easting (SFT)	868,230.7448	
Elevation (SFT)*	321.526	

Convergence Angle	0	48	50.5972572
Scale Factor	0.999987057		
Elevation Adjust. Factor	0.9999846206		
Combined Adjust. Factor	0.9999716778		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	21	39.2779584
Longitude	93	27	16.1015220
Ellipsoid Height (M):	71.456		
Geoid Height (M):	-26.547		

Location Description

TO REACH THE STATION MARK FROM JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 53 NORTH, IN BUCKNER GO WEST ON HIGHWAY 82, 1.15 MILES TO THE STATION ON THE LEFT. SOUTH 69.0 FEET OF THE CENTER LINE OF HIGHWAY 82,NORTH 3.0 FEET OF A WITNESS POST THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370016 2012 ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	110	18.47	60.6
MK # 2	COMBINATION POLE WITH GUY	276	38.40	126.0
MK # 3	FENCE CORNER	273	38.40	126.0

AZ Mark Station	370006
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	SHRV

Comments

VERTICAL CONTROL BY CREW S5112 IN MAY 2012 BY DIGITAL 3 WIRE LEVELS FROM T 202 AND CHECKED BY STATIC GPS USING STAMPS RM1, Q 202, L 202, J 202, AND T 203. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS CONSTRAINT IN FINAL STATIC ADJUSTMENT (ELEV. DIFFERENCE DUE TO ROUNDING).
**********UPDATED ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370017	3/19/2013	AHTD	LAFAYETTE	82	030343

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	478,590.6346	0.0010
Easting (M)	257,077.8930	0.0020
Elevation (M)*	78.104	
Northing (SFT)	1,570,176.1070	
Easting (SFT)	843,429.7206	
Elevation (SFT)*	256.245	

Convergence Angle	0	51	34.4372087
Scale Factor	0.999986112		
Elevation Adjust. Factor	0.9999877431		
Combined Adjust. Factor	0.9999738553		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	21	56.0698056
Longitude	93	32	8.8345536
Ellipsoid Height (M):	51.499		0.0072
Geoid Height (M):	-26.605		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 29, IN LEWISVILLE, GO EAST ON HIGHWAY 82 2.5 MILES TO THE MARK ON THE RIGHT, IN FRONT OF TRINITY BAPTIST CHURCH, 41 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 19.3 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370017 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF CONC HDWL	270	7.74	25.4
MK # 2	COMBINATION POLE	180	5.94	19.5
MK # 3	TELEPHONE RISER	165	6.10	20.0

AZ Mark Station	370017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	SHRV
Ref Mon # 3	TXCR

Comments

ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB #07ST01 IN MAY OF 2012 (FROM T 202 TO GPS 370016 AND FROM STAMPS RM 1 TO GPS 370015A) TO DIGITAL LEVELS FOR JOB #030343 IN MARCH 2013 BY S5112 FROM GPS 370016 AND THRU GPS PAIR 370015A & 370015. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370017A	3/19/2013	AHTD	LAFAYETTE	82	030343

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	478,654.5745	0.0010
Easting (M)	257,757.8761	0.0020
Elevation (M)*	77.385	
Northing (SFT)	1,570,385.8832	
Easting (SFT)	845,660.6318	
Elevation (SFT)*	253.887	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	33	21	58.4753148	
Longitude	93	31	42.5707644	
Ellipsoid Height (M):	50.784			0.0067
Geoid Height (M):	-26.601			

Convergence Angle	0	51	19.7376105
Scale Factor	0.999985977		
Elevation Adjust. Factor	0.9999878559		
Combined Adjust. Factor	0.9999738331		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 29, IN LEWISVILLE, GO EAST ON HIGHWAY 82 2.9 MILES TO THE MARK ON THE RIGHT, 46.1 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 29.7 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "370017A 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	252	25.48	83.6
MK # 2	COMBINATION POLE W/ 3 GUYS	121	28.35	93.0
MK # 3				

AZ Mark Station	370017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	SHRV
Ref Mon # 3	TXCR

Comments

ELEV. BY COMBINING STUBBED OUT DIGITAL LEVELS UNDER JOB #07ST01 IN MAY OF 2012 (FROM T 202 TO GPS 370016 AND FROM STAMPS RM 1 TO GPS 370015A) TO DIGITAL LEVELS FOR JOB #030343 IN MARCH 2013 BY S5112 FROM GPS 370016 AND THRU GPS PAIR 370015A & 370015. **NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370018	1/20/2015	AHTD	LAFAYETTE	CR 25	BR3714

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	487,187.0815	0.0030
Easting (M)	253,882.0627	0.0030
Elevation (M)*		
Northing (SFT)	1,598,379.6166	
Easting (SFT)	832,944.7340	
Elevation (SFT)*		

Convergence Angle	0	52	46.4771272
Scale Factor	0.999971438		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	26	33.4950720	
Longitude	93	34	17.5483596	
Ellipsoid Height (M):	52.795	0.0060		
Geoid Height (M):	-26.824	0.0060		

Location Description

GO SOUTH ON HIGHWAY 355 EAST AND 29 SOUTH OF HOPE, GO SOUTH ON 29 FOR 6.3 MILES TO COUNTY ROAD 40, TURN LEFT (EAST) ON COUNTY ROAD 40 FOR 1.4 MILES TO THE JUNCTION OF COUNTY ROAD 40 AND COUNTY ROAD 25, AT THE INTERSECTION TURN LEFT (NORTH) ON COUNTY ROAD 25 AND GO 1.0 MILES TO THE MARK ON THE RIGHT. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 370018" ON TOP OF A 4 FOOT REBAR DRIVEN 0.7 BELOW THE SURFACE OF THE GROUND, 24.25 FOOT WEST OF A WITNESS POST AND 11.4 FOOT EAST OF THE CENTERLINE OF COUNTY ROAD 25.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	370018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SHRV
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370018A	1/20/2015	AHTD	LAFAYETTE	CR 25	BR3714

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	487,906.8253	0.0030
Easting (M)	253,916.2473	0.0030
Elevation (M)*		
Northing (SFT)	1,600,740.9760	
Easting (SFT)	833,056.8880	
Elevation (SFT)*		

Convergence Angle	0	52	45.9758254
Scale Factor	0.999970284		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	33	26	56.8715064	
Longitude	93	34	16.6526832	
Ellipsoid Height (M):	52.830			0.0060
Geoid Height (M):	-26.831			0.0060

Location Description

GO SOUTH ON HIGHWAY 355 EAST AND 29 SOUTH OF HOPE, GO SOUTH ON 29 FOR 6.3 MILES TO COUNTY ROAD 40, TURN LEFT (EAST) ON COUNTY ROAD 40 FOR 1.4 MILES TO THE JUNCTION OF COUNTY ROAD 40 AND COUNTY ROAD 25, AT THE INTERSECTION TURN LEFT (NORTH) ON COUNTY ROAD 25 AND GO 1.45 MILES TO THE MARK ON THE RIGHT AT A ROAD INTERSECTION. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 370018A" ON TOP OF A 4 FOOT REBAR DRIVEN 0.6 BELOW THE SURFACE OF THE GROUND, SOUTH 36.8 FOOT OF A GRAVEL ROAD, 23.6 FOOT WEST OF A WITNESS POST AND 16.9 FOOT EAST OF THE CENTERLINE OF COUNTY ROAD 25.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE		93.80	307.7
MK # 2				
MK # 3				

AZ Mark Station	370018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SHRV
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370019	4/19/2017	AHTD	LAFAYETTE	SR-160	030455

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	447,152.7180	0.0020
Easting (M)	251,229.3130	0.0020
Elevation (M)*		

Northing (SFT)	1,467,033.5423	
Easting (SFT)	824,241.5044	
Elevation (SFT)*		

Convergence Angle	0	53	30.4523932
Scale Factor	1.000055667		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	4	52.8571092
Longitude	93	35	36.1190184
Ellipsoid Height (M):	46.290	0.0150	
Geoid Height (M):	-26.424	0.0150	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-29 AND SR-160, IN BRADLEY, GO EAST ON SR-160 3.6 MILES TO THE STATION ON THE LEFT. 18.5' NORTH OF THE C/L OF THE HIGHWAY AND 24.5' EAST OF C/L LOGGING ROAD. THE MARK IS A STANDARD 2½" CAP STAMPED "370019 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	347	4.88	16.0
MK # 2				
MK # 3				

AZ Mark Station	WHV 16 NO 1
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON AHTD CORS SITES ARCM & ARHP AND ON 2ND ORDER USC & GS BM C 63 IN THE STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370020	9/10/2020	ARDOT	LAYAYETTE	CR 22	BR3715

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	477,132.6113	0.0030
Easting (M)	253,256.0164	0.0030
Elevation (M)*		
Northing (SFT)	1,565,392.5756	
Easting (SFT)	830,890.7805	
Elevation (SFT)*		

Convergence Angle	0	52	56.6864219
Scale Factor	0.999988901		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	21	6.8636808	
Longitude	93	34	35.7893184	
Ellipsoid Height (M):	53.543			0.0110
Geoid Height (M):	-26.715			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 313S AND STATE HIGHWAY 29, SOUTH OF LEWISVILLE, GO NORTH ON HIGHWAY 29 122.7' TO THE MARK ON THE RIGHT, EAST 27' OF THE C/L OF HIGHWAY 29 AND NORTH 122.7' OF THE C/L OF HIGHWAY 313AND SOUTH 88.3' OF THE SOUTH END OF A BRIDGE. THE MARK IS A STANDARD 2 1/2' CAP STAMPED "2020 370020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	370020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARHP, TXMA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
370020A	9/10/2020	ARDOT	LAYAYETTE	CR 22	BR3715

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	476,824.4844	0.0030
Easting (M)	253,475.7285	0.0030
Elevation (M)*		

Northing (SFT)	1,564,381.6626	
Easting (SFT)	831,611.6193	
Elevation (SFT)*		

Convergence Angle	0	52	51.8283231
Scale Factor	0.999989469		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 18	
Latitude	33 20 56.9731524	
Longitude	93 34 27.1093476	
Ellipsoid Height (M):	54.132	0.0110
Geoid Height (M):	-26.711	0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 313S AND STATE HIGHWAY 29, SOUTH OF LEWISVILLE, GO SOUTH ON HIGHWAY 313S 0.2. MILES' TO THE MARK ON THE RIGHT, WEST 26.2' OF THE C/L OF HIGHWAY 29 AND SOUTH 20.7' OF THE C/L OF COUNTY ROAD 22. THE MARK IS A STANDARD 2 1/2' CAP STAMPED "2020 370020A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE W/GUY	275	24.17	79.3
MK # 2				
MK # 3				

AZ Mark Station	370020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARHP, TXMA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380001	3/27/1992	AHTD	LAWRENCE	412	R00054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	208,455.6510
Easting (M)	472,025.7960
Elevation (M)*	101.142
Northing (SFT)	683,908.2483
Easting (SFT)	1,548,637.9657
Elevation (SFT)*	331.830

Convergence Angle	0	27	57.9038393
Scale Factor			0.999995399
Elevation Adjust. Factor			0.9999841278
Combined Adjust. Factor			0.9999795268

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	12	34.5669984
Longitude	91	11	56.5039464
Ellipsoid Height (M):	72.200		
Geoid Height (M):	-28.937		

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 115 IN IMBODEN, GO WEST ON HWY. 412 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 55.8 FEET NORTH OF THE CENTERLINE OF HWY. 412, 23 FEET EAST OF A PRIVATE DRIVE AND 3.92 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	15	28.55	93.7
MK # 2	NBC IN COMBINATION POLE	295	20.69	67.9
MK # 3	NBC IN POWER POLE	200	38.82	127.4

AZ Mark Station	92380001A AZ. MK.
Geodetic Azimuth	131 13 32.40727
Grid Azimuth	130 45 34.58361

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	SEDGWICK NW BASE
Ref Mon # 3	NONE

Comments

(OLD PN = 92380001)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380001A	12/15/2021	AHTD	LAWRENCE	63	101061

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	208,143.2258	0.0010
Easting (M)	472,392.3745	0.0010
Elevation (M)*	88.590	0.0000
Northing (SFT)	682,883.2333	
Easting (SFT)	1,549,840.6487	
Elevation (SFT)*	290.650	

Convergence Angle	0	28	6.3837221
Scale Factor	0.999994858		
Elevation Adjust. Factor	0.9999860975		
Combined Adjust. Factor	0.9999809555		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	12	24.3341964	
Longitude	91	11	41.9311752	
Ellipsoid Height (M):	60.312			0.0060
Geoid Height (M):	-28.278			0.0060

Location Description

FROM THE INTERSECTION OF U. S. HWY 63 AND AR STATE HWY 115 SOUTH LOCATED IN IMBODEN, LAWRENCE COUNTY ARKANSAS . TRAVEL WEST 1.0 MILES TO THE STATION ON THE RIGHT 53 FEET (16.1M) NORTHEAST OF THE CENTERLINE OF U. S. HWY 63 AND 54 FEET (16.4M) SOUTHEAST OF THE CENTERLINE OF A GRAVEL FIELD ENTRANCE. THE STATION IS A STANDARD 2 INCH ARDOT GPS MONUMET STAMPED 380001A / 2021, SET ON TOP OF 5/8 INCH REBAR 4 FOOT IN LENGHT SET 0.04 FEET BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	38	2.40	7.9
MK # 2	E. END 18" COURRAGATED METAL PIPE	292	12.80	42.0
MK # 3	FIBER OPTIC UTILITY MARKER	146	19.50	64.0

AZ Mark Station	380001
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

RESET 380001A Levels were ran from H 316

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380002	3/27/1992	AHTD	LAWRENCE	412	R00054

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	205,215.3459	
Easting (M)	475,334.5690	
Elevation (M)*	88.663	
Northing (SFT)	673,277.3473	
Easting (SFT)	1,559,493.4985	
Elevation (SFT)*	290.889	

Convergence Angle	0	29	14.3389479
Scale Factor	0.999989923		
Elevation Adjust. Factor	0.9999860861		
Combined Adjust. Factor	0.9999760092		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	10	48.5503536
Longitude	91	9	45.1493784
Ellipsoid Height (M):	59.770		
Geoid Height (M):	-28.895		

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 1.80 MILES TO THE STATION ON THE RIGHT. THE STATION IS 58 FEET RIGHT OF THE CENTERLINE OF HWY. 412, 545 FEET NORTHWEST OF A CONCRETE BRIDGE END, 285 FEET SOUTH OF A FIELD ENTRANCE AND 3.75 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	79	36.34	119.2
MK # 2	NBC IN TOP OF FENCE BRACE POST	171	31.70	104.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	92380002A AZ. MK.
Geodetic Azimuth	1 52 24.03065
Grid Azimuth	1 23 09.69428

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	SEDGWICK NW BASE
Ref Mon # 3	NONE

Comments

(OLD PN = 92380002)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380002A	3/27/1992	AHTD	LAWRENCE	412	R00054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	205,678.4960	
Easting (M)	475,345.7750	
Elevation (M)*	96.801	
Northing (SFT)	674,796.8656	
Easting (SFT)	1,559,530.2635	
Elevation (SFT)*	317.588	

Convergence Angle	0	29	14.6916430	
Scale Factor	0.999990683			
Elevation Adjust. Factor	0.9999848090			
Combined Adjust. Factor	0.9999754921			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	11	3.5730384	
Longitude	91	9	44.5432680	
Ellipsoid Height (M):	67.899			
Geoid Height (M):	-28.902			

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 1.50 MILES TO THE STATION ON THE LEFT. THE STATION IS 58 FEET LEFT OF THE CENTERLINE OF HWY. 412 AND 2.25 FEET WEST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	13	2.47	8.1
MK # 2	NBC IN TOP OF FENCE POST	157	2.69	8.8
MK # 3	NBC IN TOP OF FENCE POST	166	7.95	26.1

AZ Mark Station	92380002
Geodetic Azimuth	181 52 24.38847
Grid Azimuth	181 23 09.69428

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	SEDGWICK NW BASE
Ref Mon # 3	NONE

Comments

(OLD PN = 92380002A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380003	3/27/1992	AHTD	LAWRENCE	412	R00054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	200,402.7050
Easting (M)	475,753.1120
Elevation (M)*	90.662
Northing (SFT)	657,487.8747
Easting (SFT)	1,560,866.6683
Elevation (SFT)*	297.447

Convergence Angle	0	29	23.1272452
Scale Factor	0.999982337		
Elevation Adjust. Factor	0.9999857724		
Combined Adjust. Factor	0.9999681096		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	8	12.2988840
Longitude	91	9	30.0465936
Ellipsoid Height (M):	61.830		
Geoid Height (M):	-28.829		

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 4.80 MILES TO THE STATION ON RIGHT. THE STATION IS 58 FEET RIGHT OF THE CENTERLINE OF HWY. 412, 476 FEET SOUTHWEST OF THE CONCRETE BRIDGE END, 32 FEET SOUTH OF A PRIVATE DRIVE AND 2.30 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	131	12.37	40.6
MK # 2	NBC IN POWER POLE	127	42.23	138.5
MK # 3	NBC IN POWER POLE	53	48.42	158.9

AZ Mark Station	92380003A AZ. MK.
Geodetic Azimuth	6 11 16.22278
Grid Azimuth	5 41 53.10220

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	SEDGWICK NW BASE
Ref Mon # 3	NONE

Comments

(OLD PN = 92380003)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380003A	3/27/1992	AHTD	LAWRENCE	412	R00054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	200,795.1720	
Easting (M)	475,792.2720	
Elevation (M)*	96.734	
Northing (SFT)	658,775.4935	
Easting (SFT)	1,560,995.1457	
Elevation (SFT)*	317.368	

Convergence Angle	0	29	24.1167581
Scale Factor	0.999982933		
Elevation Adjust. Factor	0.9999848195		
Combined Adjust. Factor	0.9999677528		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	8	25.0208448
Longitude	91	9	28.3461048
Ellipsoid Height (M):	67.905		
Geoid Height (M):	-28.834		

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST 4.55 MILES ON HWY. 412 TO THE STATION ON THE LEFT. THE STATION IS 59 FEET LEFT OF THE CENTERLINE OF HWY. 412, 85 FEET SOUTHEAST OF A CONCRETE CROSSDRAIN HEADWALL AND 2.0 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	358	53.59	175.8
MK # 2	NBC IN COMBINATION POLE	177	18.31	60.1
MK # 3	NBC IN COMBINATION POLE	136	36.13	118.5

AZ Mark Station	92380003
Geodetic Azimuth	186 11 17.22563
Grid Azimuth	185 41 53.10220

Area Reference Monuments (used for Processing)

Ref Mon # 1	POCAPORT
Ref Mon # 2	SEDGWICK NW BASE
Ref Mon # 3	NONE

Comments

(OLD PN = 92380003A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380004	3/27/1992	AHTD	LAWRENCE	412	100686, 100646,100981

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	197,238.2980
Easting (M)	479,327.6700
Elevation (M)*	105.372
Northing (SFT)	647,105.9827
Easting (SFT)	1,572,594.1973
Elevation (SFT)*	345.709

Convergence Angle	0	30	45.6604846
Scale Factor			0.999977620
Elevation Adjust. Factor			0.9999834639
Combined Adjust. Factor			0.9999610843

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	28.6209900
Longitude	91	7	8.2123212
Ellipsoid Height (M):	77.338		
Geoid Height (M):	-28.034		

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 62 IN IMBODEN, GO EAST ON HWY. 412 7.14 MILES TOTHE STATION ON THE RIGHT. THE STATION IS 2.0 FEET NORTH OF A WITNESS POST IN THE LAWN OF THE "NEW LIFE FULL GOSPEL CHURCH" OVERLOOKING HWY. 412.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	107	19.80	65.0
MK # 2	NBC IN 14" CEDAR	243	25.92	85.0
MK # 3	NBC IN 18" ELM	238	33.57	110.1

AZ Mark Station	380009
Geodetic Azimuth	88 17 09
Grid Azimuth	87 46 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARPG
Ref Mon # 2	B 316, 380008
Ref Mon # 3	O 2,

Comments

DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING C 316, F 316, AND S315

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380005	11/4/1993	AHTD	LAWRENCE	CR 730	RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	176,535.4500	
Easting (M)	490,602.3780	
Elevation (M)*	78.450	
Northing (SFT)	579,183.3889	
Easting (SFT)	1,609,584.6352	
Elevation (SFT)*	257.381	

Convergence Angle	0	35	3.0530394
Scale Factor	0.999953096		
Elevation Adjust. Factor	0.9999876888		
Combined Adjust. Factor	0.9999407854		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	55	13.4360400
Longitude	90	59	45.8804076
Ellipsoid Height (M):			
Geoid Height (M):	-28.617		

Location Description

THE STATION IS LOCATED IN T-15-N R-1-E IN THE NW 1/4 OF THE SW 1/4 OF SECTION 21. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD AND LAWRENCE COUNTY LINE AND THE JCT. OF CO. RD. NO. 194 TO THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191, GO RIGHT (NORTH) ON CO. RD. NO. 191 FOR 1.62 KM (1.0 MILES) TO THE JCT. WITH HWY. 230, CONTINUE NORTH ON CO. RD. NO. 191CROSSING HWY. 230 FOR 2.82 KM (1.75 MILES) TO A "T " JCT., GO LEFT (WEST) AT THE " T " JCT. FOR 0.32 KM (0.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 3.460 METERS SOUTH OF THE GRAVEL ROAD, 130.74 METERS EAST OF A GRAVEL ROAD GOING NORTH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED"380005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.30 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CPS IN POWER POLE	277	62.81	206.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	38005A
Geodetic Azimuth	272 28 12.75241
Grid Azimuth	271 53 09.65012

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380005A	11/4/1993	AHTD	LAWRENCE	CR 730	RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	176,552.5280	
Easting (M)	490,083.7370	
Elevation (M)*	77.946	
Northing (SFT)	579,239.4189	
Easting (SFT)	1,607,883.0605	
Elevation (SFT)*	255.728	

Convergence Angle	0	34	51.0192449
Scale Factor			0.999953117
Elevation Adjust. Factor			0.9999877679
Combined Adjust. Factor			0.9999408855

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	55	14.1612132
Longitude	91	0	6.5606148
Ellipsoid Height (M):			
Geoid Height (M):	-28.616		

Location Description

THE STATION IS LOCATED IN T-15-N R-1-E IN THE NE 1/4 OF THE SE 1/4 OF SECTION 20. FROM THE POST OFFICE IN THE TOWN OF EGYPT, GO NORTH ON HWY. 91 FOR 1.62 KM (1.0 MILES) TO THE CRAIGHEAD AND LAWRENCE COUNTY LINE AND THE JCT. OF CO. RD. NO. 194 TO THE LEFT, GO LEFT (WEST) ON CO. RD. NO. 194 FOR 4.10 KM (3.10 MILES) TO THE JCT. WITH CO. RD. NO. 191, GO RIGHT (NORTH) ON CO. RD. NO. 191 FOR 1.62 KM (1.0 MILES) TO THE JCT. WITH HWY. 230, CONTINUE STRAIGHT AHEAD (NORTH) ON CO. RD. NO. 191CROSSING HWY. 230 FOR 2.82 KM (1.75 MILES) TO A "T" JCT., GO LEFT AT THE "T" JCT. FOR 0.45 KM (0.28 MILES) TO THE STATION ON THE LEFT. THE STATION IS 3.45 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "38005A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.25 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	251	32.23	105.7
MK # 2	NBC IN 3" TREE	309	17.60	57.8
MK # 3	NONE			

AZ Mark Station	380005
Geodetic Azimuth	92 28 00.620108
Grid Azimuth	91 53 09.650122

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380006A	11/4/1993	AHTD	LAWRENCE	CR 716	RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	180,728.7779	
Easting (M)	492,593.5530	
Elevation (M)*	78.783	
Northing (SFT)	592,940.9988	
Easting (SFT)	1,616,117.3485	
Elevation (SFT)*	258.474	

Convergence Angle	0	35	50.2833465	
Scale Factor			0.999957154	
Elevation Adjust. Factor			0.9999876365	
Combined Adjust. Factor			0.9999447911	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	35	57	28.8202788	
Longitude	90	58	24.7146096	
Ellipsoid Height (M):				
Geoid Height (M):	-28.663			

Location Description

THE STATION IS LOCATED FOUND IN T-15-N R-1-E IN THE SW 1/4 OF THE SW 1/4 OF SECTION 3.FROM THE JCT. OF HWY. 67 AND MAGNOLIA STREET IN THE TOWN OF MINTURN GO EAST ON MAGNOLIA STREET (ALSO KNOWN AS "OLD MINTURN ROAD") FOR 5.36 KM (3.33 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.06 METERS SOUTH OF THE CENTER OF THE GRAVEL ROAD, 192.33 METERS WEST OF A DRIVEWAY TO A ROCK HOUSE OWNED BY MR. RICHARD TINKER AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "38006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	35	17.53	57.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	380006
Geodetic Azimuth	291 45 26.52163
Grid Azimuth	291 09 36.19206

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380007	11/4/1993	AHTD	LAWRENCE	CR 701	RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	187,553.5869
Easting (M)	493,040.3000
Elevation (M)*	80.021
Northing (SFT)	615,332.0597
Easting (SFT)	1,617,583.0509
Elevation (SFT)*	262.536
Convergence Angle	0 36 2.3187520
Scale Factor	0.999964714
Elevation Adjust. Factor	0.9999874423
Combined Adjust. Factor	0.9999521567

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 1 10.0926804
Longitude	90 58 4.0316340
Ellipsoid Height (M):	
Geoid Height (M):	-28.732

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED IN T-16-N R-1-E IN THE SE 1/4 OF THE SW 1/4 OF SECTION 15. FROM THE JCT. OF HWY. 67 AND HWY. 63 IN THE TOWN OF HOXIE, GO SOUTH ON HWY. 63 FOR 0.48 KM (0.30 MILES) TO FOURTH STREET ON THE RIGHT, GO RIGHT ON FOURTH STREET FOR 0.40 KM (0.25 MILES) TO A " T " INTERSECTION WITH PECAN STREET, GO LEFT (SOUTHEAST) ON PECAN STREET WHICH IS THE MAIN TRAVELED ROAD FOR 3.26 KM (2.03 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 7.76 METERS WEST OF THE CENTER OF THE GRAVEL ROAD, 11.96 METERS SOUTH OF THE CENTER OF A PIPE CULVERT CARRYING "WHITE OAK SLOUGH" UNDER THE ROAD, 53.05 METERS SOUTHWEST OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "380007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	169	64.31	211.0
MK # 2	NBC IN POWER POLE	350	63.93	209.7
MK # 3	NBC IN POWER POLE	345	11.96	39.2

AZ Mark Station	38007A
Geodetic Azimuth	182 09 32.42643
Grid Azimuth	181 33 30.1049

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380008	6/17/2007	ahtd	LAWRENCE	63	100646, 100686

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,140.8220	
Easting (M)	487,945.5280	
Elevation (M)*	78.295	
Northing (SFT)	633,662.8468	
Easting (SFT)	1,600,867.9531	
Elevation (SFT)*	256.873	

Convergence Angle	0	34	5.2083155
Scale Factor	0.999971835		
Elevation Adjust. Factor	0.9999877131		
Combined Adjust. Factor	0.9999595484		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	4	13.0481724	
Longitude	91	1	25.2871968	
Ellipsoid Height (M):	50.311			
Geoid Height (M):	-27.961			

Location Description

To reach the station from the junction of highways 412 and 63 on the west side of Walnut Ridge go east on hwy-63 for 1.0 miles to the station on the right near the west driveway to Heards country market. 73.0 feet east of the center of a gravel drive, 56.5 feet south of the center of hwy-63 and 8.50 feet north of a witness post set by a split-rail fence. The station mark is a 2 1/2 inch cap stamped "380008 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	N/A			
MK # 2				
MK # 3				

AZ Mark Station	B 316
Geodetic Azimuth	110 35 37
Grid Azimuth	110 01 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARBT
Ref Mon # 3	ARMH

Comments

3-wire levels established to mark by crew S5101 in Sept 07. Levels were based on 1st order NGS marks B 316 & D 316.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380009	6/30/2009	AHTD	LAWRENCE	NA	100686, 100646,100981

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	197,261.2039
Easting (M)	479,916.6870
Elevation (M)*	91.634
Northing (SFT)	647,181.1331
Easting (SFT)	1,574,526.6639
Elevation (SFT)*	300.637

Convergence Angle	0	30	59.3687891
Scale Factor			0.999977646
Elevation Adjust. Factor			0.9999856198
Combined Adjust. Factor			0.9999632661

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	29.1925008
Longitude	91	6	44.6544504
Ellipsoid Height (M):	63.601		
Geoid Height (M):	-28.033		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 117 AND STATE HIGHWAY 63/412, WEST OF BLACK ROCK, GO NORTH ON 117 FOR 0.2 MILES TO THE MARK ON THE LEFT, 33 FEET EAST OF THE C/L OF THE CONCRETE DRIVE TO THE BLACK ROCK POST OFFICE AND NORTH 21.5 FEET OF THE C/L OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "380009 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	85	10.52	34.5
MK # 2	COMBINATION POLE W/TRANSFORMER	199	19.81	65.0
MK # 3	SE CORNER BLKROC POST OFFICE	312	37.64	123.5

AZ Mark Station	380004
Geodetic Azimuth	268 17 22
Grid Azimuth	267 46 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARPG
Ref Mon # 2	B 316, 380008
Ref Mon # 3	O 2,

Comments

DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING C 316, F 316, AND S315 Cap stamped 9238004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380010	6/30/2009	AHTD	LAWRENCE	504	100686

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	194,340.5499	
Easting (M)	484,286.1090	
Elevation (M)*	79.422	
Northing (SFT)	637,598.9541	
Easting (SFT)	1,588,862.0093	
Elevation (SFT)*	260.571	

Convergence Angle	0	32	40.3774632
Scale Factor	0.999973500		
Elevation Adjust. Factor	0.9999875362		
Combined Adjust. Factor	0.9999610366		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	53.1242040
Longitude	91	3	51.0699420
Ellipsoid Height (M):	51.434		
Geoid Height (M):	-27.988		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 63/412 AND THE C/L OF THE BLACK RIVER, IN BLACK ROCK, GO SOUTH ON 412/63 2.2 MILES TO A CROSS ROAD AND TURN RIGHT ON COUNTY ROAD 504 AND GO 0.25 MILES TO THE MARK ON THE RIGHT, WEST OF THE C/L OF THE ROAD 18.3 FEET AND SOUTH 22.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "380010 2009" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	12" CONCRETE CULVERT	6	10.21	33.5
MK # 2	NE CORNER BRICK HOUSE #206	265	11.58	38.0
MK # 3	LIGHT POLE	190	25.30	83.0

AZ Mark Station	O 2
Geodetic Azimuth	3 05 35
Grid Azimuth	2 32 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARPG
Ref Mon # 2	B 316, 380008
Ref Mon # 3	O 2,

Comments

DIGITAL 3 WIRE LEVELS BY S5102 ON 6/2009 UTILIZING O 2 AND E 316

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380011	9/14/2011	AHTD	LAWRENCE	63	012157,050266

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	211,056.6369
Easting (M)	467,856.7157
Elevation (M)*	
Northing (SFT)	692,441.6496
Easting (SFT)	1,534,959.9081
Elevation (SFT)*	
Convergence Angle	0 26 21.2498911
Scale Factor	1.000000005
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	14	0.0174948
Longitude	91	14	42.6048108
Ellipsoid Height (M):	64.045		
Geoid Height (M):	-28.303		

Location Description

Starting at the junction of highway 63 and 90 go east 0.55 miles to the farm road on the right and then go 0.15 down it to the station on the left. The station is a standard alum. cap (stamped 380011 2011) and is on a 4 foot 5/8" rebar. And as described as above. Lat.36.1400 Lon.091.1443

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Nearest rail	320	11.89	39.0
MK # 2	power pole	220	6.71	22.0
MK # 3	fence	150	3.20	10.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380011A	9/14/2011	AHTD	LAWRENCE	63	012157,050266

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,798.8632	
Easting (M)	467,460.8165	
Elevation (M)*		

Northing (SFT)	691,595.9370	
Easting (SFT)	1,533,661.0288	
Elevation (SFT)*		

Convergence Angle	0	26	11.9789204
Scale Factor			0.999999552
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	13	51.7529208
Longitude	91	14	58.5370752
Ellipsoid Height (M):	63.668		
Geoid Height (M):	-28.302		

Location Description

Starting at the junction of highway 63 and 90 go south on 90 0.425 miles to a railroad crossing. The station is on the left and is a standard alum. cap (stamped 380011A 2011) and is on a 4 foot 5/8" rebar. And as described above. Lat.36.1352 Lon.091.1458

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	nearest rail	140	4.27	14.0
MK # 2	CL paved road	50	19.80	65.0
MK # 3	a Small sign next to rail that reads Shunt	210	11.28	37.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380012		AHTD	LAWRENCE	412	781,Mobile LiDAR-CLS, 100

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	193,621.4004	0.0020
Easting (M)	496,194.5504	0.0020
Elevation (M)*	88.768	

Northing (SFT)	635,239.5445	
Easting (SFT)	1,627,931.6208	
Elevation (SFT)*	291.233	

Convergence Angle	0	37	17.1494313
Scale Factor	0.999972363		
Elevation Adjust. Factor	0.9999860696		
Combined Adjust. Factor	0.9999584330		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	4	25.8618396
Longitude	90	55	55.4343744
Ellipsoid Height:	60.691		
Grid Northing (Meters)	193,621.4130		
Grid Easting (Meters)	496,194.5482		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	4	25.8614292	
Longitude	90	55	55.4342952	
Ellipsoid Height (M):	60.698			0.0080
Geoid Height (M):	-28.060			0.0080

Location Description

Starting at the intersection of highway 412 and 67 go north on 67 for 0.3 miles to the station on the left. The station is a standard alum. cap and set on a 4 foot rebar. It is 24 foot west of the CL of highway 67 north off ramp. LAT: 36 04 26 LONG: 90 55 55

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S.E. of a cross drain		15.85	52.0
MK # 2	west of N.W. corner of a bridge		3.05	10.0
MK # 3	yellow stripe		4.89	16.0

AZ Mark Station	380012A
Geodetic Azimuth	182° 5 ' 19"
Grid Azimuth	181° 28 ' 2"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

SUPERCEDED GEOID HT. WAS -28.05697m
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380012A		AHTD	LAWRENCE	412	781,Mobile LiDAR-CLS, 100

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	193,081.6641	0.0010
Easting (M)	496,180.7259	0.0020
Elevation (M)*	88.115	
Northing (SFT)	633,468.7596	
Easting (SFT)	1,627,886.2649	
Elevation (SFT)*	289.092	

Convergence Angle	0	37	16.6918372
Scale Factor	0.999971643		
Elevation Adjust. Factor	0.9999861720		
Combined Adjust. Factor	0.9999578154		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	4	8.3555688
Longitude	90	55	56.2206324
Ellipsoid Height:	60.049		
Grid Northing (Meters)	193,081.6627		
Grid Easting (Meters)	496,180.7270		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	4	8.3556156
Longitude	90	55	56.2206756
Ellipsoid Height (M):	60.048		0.0080
Geoid Height (M):	-28.055		0.0080

Location Description

Starting at the G. & L. County line go west for 6.1 miles on highways 412 to the station on the left. The station is a standard alum. cap and set on a 4 foot rebar. LAT:36 04 09 LONG: 90 55 56

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	south of CL highway 412		12.80	42.0
MK # 2	South of S.E. corner of bridge		1.50	4.9
MK # 3				

AZ Mark Station	380012
Geodetic Azimuth	2° 5 ' 19"
Grid Azimuth	1° 28 ' 2"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

SUPERCEDED GEOID HT. WAS -28.05135m
STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380013		AHTD	LAWRENCE	412	100781,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	193,554.7498
Easting (M)	502,629.4781
Elevation (M)*	81.183
Northing (SFT)	635,020.8750
Easting (SFT)	1,649,043.5461
Elevation (SFT)*	266.348

Convergence Angle	0	39	46.7725110
Scale Factor	0.999972177		
Elevation Adjust. Factor	0.9999872599		
Combined Adjust. Factor	0.9999594373		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid12A		
Latitude	36	4	21.3589812
Longitude	90	51	38.3054004
Ellipsoid Height (M):	53.132		
Geoid Height (M):	-28.059		

Location Description

From the Lawrece Co. line on HWY. 412, go West on 412 for 2.0 miles to the station on the right. Standard alum cap stamped 380013 2012 with a 4ft rebar. 18 ft. west of witness post. LAT:36 04 21 LONG:90 51 38

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East of Co.Rd 615		6.40	21.0
MK # 2	South of field enterance	350	7.62	25.0
MK # 3	East of PP	280	11.89	39.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Rusty McCormick Combine of 30. Az

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380013A			LAWRENCE	412	100781,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,330.2451	
Easting (M)	503,454.1939	
Elevation (M)*	78.227	
Northing (SFT)	634,284.3125	
Easting (SFT)	1,651,749.3012	
Elevation (SFT)*	256.650	

Convergence Angle	0	40	5.8896444
Scale Factor			0.999971865
Elevation Adjust. Factor			0.9999877238
Combined Adjust. Factor			0.9999595891

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid12A		
Latitude	36	4	13.7645724
Longitude	90	51	5.4523980
Ellipsoid Height (M):	50.179		
Geoid Height (M):	-28.058		

Location Description

From the Lawrence Co. line on hwy.412, go west for 1.5miles to the station on the right, standard alum cap stamped 380013A 2012, with 4.ft rebar. 2 ft. south of witness post. LAT:36 04 14 LONG:90 51 05

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East of cl of dw		6.40	21.0
MK # 2	North of cl of 412		22.86	75.0
MK # 3	NE of center of HW	243	25.91	85.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

pp w/guy-298AZ

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380014		AHTD	LAWRENCE	412	100781,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,368.1655	
Easting (M)	508,333.0471	
Elevation (M)*	79.228	
Northing (SFT)	634,408.7230	
Easting (SFT)	1,667,756.0054	
Elevation (SFT)*	259.934	

Convergence Angle	0	41	59.3500581
Scale Factor	0.999971837		
Elevation Adjust. Factor	0.9999875667		
Combined Adjust. Factor	0.9999594040		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid12A		
Latitude	36	4	13.1049624
Longitude	90	47	50.4694392
Ellipsoid Height (M):	51.166		
Geoid Height (M):	-28.077		

Location Description

From the Lawrence Co. on HWY.412, go east on 412 for 1.4 miles to the station on the left. Standard alum cap stamped 380014, 2012. with 4 ft. rebar. LAT:36 04 13 LONG:90 47 51

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CL of 412	0	17.48	57.3
MK # 2	CMP	243	14.32	47.0
MK # 3	Co.Rd	270	17.37	57.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380014A		AHTD	LAWRENCE	412	100781,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	193,333.9368
Easting (M)	508,903.2799
Elevation (M)*	79.898
Northing (SFT)	634,296.4243
Easting (SFT)	1,669,626.8441
Elevation (SFT)*	262.132

Convergence Angle	0	42	12.6000605
Scale Factor			0.999971783
Elevation Adjust. Factor			0.9999874616
Combined Adjust. Factor			0.9999592449

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid12A		
Latitude	36	4	11.7679332
Longitude	90	47	27.6991656
Ellipsoid Height (M):	51.835		
Geoid Height (M):	-28.080		

Location Description

Starting from the Lawrence Co. line on hwy 412, go east for 1.7miles to the station on the right. Station is a standard alum. cap stamped 380014A, 2012. with a 4ft rebar. LAT: 36 04 12 LONG: 90 47 27

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	West of DW	72	4.57	15.0
MK # 2	South of CL412	340	13.11	43.0
MK # 3	East of WP		0.61	2.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380015	10/22/2018	AHTD	LAWRENCE	25	100991

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	192,142.1040	0.0020
Easting (M)	477,305.5540	0.0020
Elevation (M)*		

Northing (SFT)	630,386.2195	
Easting (SFT)	1,565,959.9717	
Elevation (SFT)*		

Convergence Angle	0	29	57.5824662
Scale Factor	0.999970646		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	3	43.8618636
Longitude	91	8	30.8349204
Ellipsoid Height (M):	59.192	0.0090	
Geoid Height (M):	-28.130	0.0090	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25N AND 117s, IN POWHATAN, GO SOUITH ON HIGHWAY 25 2.7 TO THE MARK ON THE RIGHT, 89' NORTHWEST OF THE C/L OF THE HIGHWAY, 58.6' SOUTHEAST OF THE C/L OF A BOAT RAMP AND NORTHEAST 4.8' OF A WITNESS POST. THE MARK IS A STANDARD 2" CAP STAMPED "2018 380015" DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF LAKE CHARLES MONUMENT	301	31.88	104.6
MK # 2				
MK # 3				

AZ Mark Station	380015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWY
Ref Mon # 3	ARJB

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380015A	10/22/2018	AHTD	LAWRENCE	25	100991

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	192,325.8339	0.0020
Easting (M)	477,759.9012	0.0020
Elevation (M)*		
Northing (SFT)	630,989.0067	
Easting (SFT)	1,567,450.6092	
Elevation (SFT)*		

Convergence Angle	0	30	8.1842910	
Scale Factor	0.999970882			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	3	49.6939104	
Longitude	91	8	12.6155688	
Ellipsoid Height (M):	51.024	0.0090		
Geoid Height (M):	-28.128	0.0090		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25N AND 117s, IN POWHATAN, GO SOUITH ON HIGHWAY 25 2.35 TO THE MARK ON THE RIGHT, 38.4' NORTH OF THE C/L OF THE HIGHWAY.THE MARK IS A STANDARD 2" CAP STAMPED "2018 380015A" DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	380015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWY
Ref Mon # 3	ARJB

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380016	10/22/2018	AHTD	LAWRENCE	25	100991

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	189,882.6730	0.0020
Easting (M)	470,898.4359	0.0020
Elevation (M)*		

Northing (SFT)	622,973.4030	
Easting (SFT)	1,544,939.2851	
Elevation (SFT)*		

Convergence Angle	0	27	28.1848685
Scale Factor			0.999967816
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	2	32.2932336
Longitude	91	12	47.5763220
Ellipsoid Height (M):	59.624		0.0100
Geoid Height (M):	-28.153		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 8.1 MILES TO THE STATION ON THE LEFT. 18' NW OF THE C/L OF SR-25, 31' SW OF CR-263. THE MARK IS A STANDARD 2½" CAP STAMPED "380016 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	N COR OF BRIDGE	222	13.41	44.0
MK # 2				
MK # 3				

AZ Mark Station	380016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380016A	10/22/2018	AHTD	LAWRENCE	25	100991

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	189,544.7214	0.0020
Easting (M)	470,524.8225	0.0020
Elevation (M)*		

Northing (SFT)	621,864.6401	
Easting (SFT)	1,543,713.5218	
Elevation (SFT)*		

Convergence Angle	0	27	19.4373555
Scale Factor			0.999967397
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	2	21.4252620	
Longitude	91	13	2.6090184	
Ellipsoid Height (M):			67.392	0.0090
Geoid Height (M):			-28.152	0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 7.8 MILES TO THE STATION ON THE RIGHT. 25' SE OF THE C/L OF SR-25, 14' N OF FENCE. THE MARK IS A STANDARD 2½" CAP STAMPED "380016A 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	224	27.13	89.0
MK # 2	BRACE IN FENCE	70	13.11	43.0
MK # 3				

AZ Mark Station	380016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380017	10/22/2018	AHTD	LAWRENCE	25	100991

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	185,142.1884	0.0020
Easting (M)	466,719.0214	0.0020
Elevation (M)*		

Northing (SFT)	607,420.6631	
Easting (SFT)	1,531,227.3227	
Elevation (SFT)*		

Convergence Angle	0	25	50.2010466
Scale Factor			0.999962179
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	59	59.5420800
Longitude	91	15	35.9625888
Ellipsoid Height (M):	70.191		0.0080
Geoid Height (M):	-28.124		0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 4.1 MILES TO THE STATION ON THE LEFT. 22' N OF THE C/L OF SR-25, 20' N OF C/L DW. THE MARK IS A STANDARD 2½" CAP STAMPED "380017 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PP WITH TRANSFORMER	200	17.07	56.0
MK # 2	LP & TB	176	25.91	85.0
MK # 3				

AZ Mark Station	380017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380017A	10/22/2018	AHTD	LAWRENCE	25	100991, C38016

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	184,756.2462	0.0020
Easting (M)	466,412.2968	0.0020
Elevation (M)*		
Northing (SFT)	606,154.4511	
Easting (SFT)	1,530,221.0104	
Elevation (SFT)*		

Convergence Angle	0	25	43.0075591
Scale Factor			0.999961743
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	59	47.0949036	
Longitude	91	15	48.3246756	
Ellipsoid Height (M):	74.421			0.0080
Geoid Height (M):	-28.135			0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-25 AND SR-230 IN STRAWBERRY, GO N ON SR-25 3.8 MILES TO THE STATION ON THE RIGHT. 25' E OF THE C/L OF SR-25, 12' N C/L GRAVEL DW. 15' NW OF CENTER OF GATE. THE MARK IS A STANDARD 2½" CAP STAMPED "380017A 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)		
Latitude	35	59	47.0949468
Longitude	91	15	48.3251400
Ellipsoid Height:	74.459		
Grid Northing (Meters)	184,756.2474		
Grid Easting (Meters)	466,412.2852		

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FE CORNER	44	23.16	76.0
MK # 2	GP	211	37.19	122.0
MK # 3				

AZ Mark Station	380017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ORIGINAL GEOID HT. -28.1203m FROM SUPERCEDED POSITION

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380018	4/8/2019	ARDOT	LAWRENCE	230	101054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	173,501.3941	0.0020
Easting (M)	484,449.6298	0.0020
Elevation (M)*		
Northing (SFT)	569,229.1571	
Easting (SFT)	1,589,398.4938	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	53	36.9623508	
Longitude	91	3	52.4473596	
Ellipsoid Height (M):	49.796			0.0080
Geoid Height (M):	-27.909			0.0080

Convergence Angle	0	32	39.5759451
Scale Factor	0.999950468		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 230, IN ALICIA, GO EAST ON HIGHWAY 230 1.25 MILES TO THE MARK ON THE RIGHT, 21' SOUTH OF THE C/L OF THE HIGHWAY AND 18.7' EAST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER BRIDGE	207	5.94	19.5
MK # 2				
MK # 3				

AZ Mark Station	380018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG, MOAT, MODP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380018A	4/8/2019	ARDOT	LAWRENCE	230	101054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	173,488.3526	0.0020
Easting (M)	484,873.0284	0.0020
Elevation (M)*		
Northing (SFT)	569,186.3702	
Easting (SFT)	1,590,787.5940	
Elevation (SFT)*		

Convergence Angle	0	32	49.3970347	
Scale Factor			0.999950453	
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	53	36.4083792	
Longitude	91	3	35.5697100	
Ellipsoid Height (M):	49.722	0.0080		
Geoid Height (M):	-27.907	0.0080		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 230, IN ALICIA, GO EAST ON HIGHWAY 230 1.5 MILES TO THE MARK ON THE RIGHT, 16.7' SOUTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380018A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	380018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG, MOAT, MODP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380019	4/8/2019	ARDOT	LAWRENCE	230	101054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	174,075.5842	0.0020
Easting (M)	492,872.3692	0.0010
Elevation (M)*		

Northing (SFT)	571,112.9792	
Easting (SFT)	1,617,032.0980	
Elevation (SFT)*		

Convergence Angle	0	35	55.1434875	
Scale Factor	0.999950886			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	53	52.8660924
Longitude	90	58	16.3624044
Ellipsoid Height (M):	49.938	0.0070	
Geoid Height (M):	-27.872	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 230, NORTH OF EGYPT, GO WEST ON HIGHWAY 230 1.5 MILES TO THE MARK ON THE LEFT, 22' SOUTH OF THE C/L OF THE HIGHWAY AND 22' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SILO	103	39.93	131.0
MK # 2	PP W/METER LOOP & TRANSFORMER			
MK # 3				

AZ Mark Station	380019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG, MOAT, MODP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380019A	4/8/2019	ARDOT	LAWRENCE	230	101054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	174,076.5368	0.0020
Easting (M)	493,296.6851	0.0010
Elevation (M)*		

Northing (SFT)	571,116.1045	
Easting (SFT)	1,618,424.2077	
Elevation (SFT)*		

Convergence Angle	0	36	4.9894323
Scale Factor			0.999950883
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	53	52.7528256	
Longitude	90	57	59.4420408	
Ellipsoid Height (M):			49.059	0.0070
Geoid Height (M):			-27.871	0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 91 AND STATE HIGHWAY 230, NORTH OF EGYPT, GO WEST ON HIGHWAY 230 1.25 MILES TO THE MARK ON THE RIGHT, 17.7' NORTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST OF NORTH END CMP	279	27.43	90.0
MK # 2				
MK # 3				

AZ Mark Station	380019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG, MOAT, MODP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380020	4/8/2019	ARDOT	LAWRENCE	230	101054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	175,578.8635	0.0020
Easting (M)	499,275.5925	0.0020
Elevation (M)*	76.006	
Northing (SFT)	576,044.9880	
Easting (SFT)	1,638,040.0064	
Elevation (SFT)*	249.364	

Convergence Angle	0	38	24.1107575	
Scale Factor	0.999952144			
Elevation Adjust. Factor	0.9999880723			
Combined Adjust. Factor	0.9999402168			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	54	39.3936408	
Longitude	90	54	0.3605256	
Ellipsoid Height (M):	48.104			0.0080
Geoid Height (M):	-27.868			0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 349N AND STATE HIGHWAY 230, WEST OF BONO, GO WEST ON HIGHWAY 230 0.5 MILES TO THE MARK ON THE RIGHT, 22' NORTH OF THE C/L OF THE HIGHWAY AND 12.4' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/GUY	41	11.83	38.8
MK # 2	NORTH END CMP	90	23.77	78.0
MK # 3				

AZ Mark Station	380020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG, MOAT, MODP

Comments

ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 & D 3

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380020A	4/8/2019	ARDOT	LAWRENCE	230	101054

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	175,562.2802	0.0020
Easting (M)	499,714.8865	0.0020
Elevation (M)*	75.951	
Northing (SFT)	575,990.5810	
Easting (SFT)	1,639,481.2568	
Elevation (SFT)*	249.183	

Convergence Angle	0	38	34.3012632	
Scale Factor			0.999952125	
Elevation Adjust. Factor			0.9999880809	
Combined Adjust. Factor			0.9999402065	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	54	38.6960328	
Longitude	90	53	42.8480304	
Ellipsoid Height (M):			48.056	0.0080
Geoid Height (M):			-27.867	0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 349N AND STATE HIGHWAY 230, WEST OF BONO, GO EAST ON HIGHWAY 230 0.2 MILES TO THE MARK ON THE LEFT, 18.6' NORTH OF THE C/L OF THE HIGHWAY AND 19' WEST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 380020A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/GUY	52	15.36	50.4
MK # 2				
MK # 3				

AZ Mark Station	380020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARBT
Ref Mon # 3	ARPG, MOAT, MODP

Comments

ELEV. BASED ON TBM 900 FROM JOB #100869 WHICH WAS BASED ON NGS 1ST ORDER BM's R 315 & D 3

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380021	11/2/2020	AHTD	LAWRENCE	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	196,665.8759	0.0020
Easting (M)	498,098.7488	0.0020
Elevation (M)*		

Northing (SFT)	645,227.9612	
Easting (SFT)	1,634,178.9784	
Elevation (SFT)*		

Convergence Angle	0	38	2.2142385
Scale Factor			0.999976536
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	6	3.9560004
Longitude	90	54	37.9899324
Ellipsoid Height (M):	53.835	0.0080	
Geoid Height (M):	-28.090	0.0080	

Location Description

THE INTERSECTION OF US HWY 412 AND STATE HWY 34 IN WALNUT GROVE, AR. GO EAST ON STATE HWY 34 FOR 3.41 MILES TO THE STATION ON THE LEFT. THE POINT IS 21.0' NORTH OF THE CL OF STATE HWY 34.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE PEDESTAL	233	38.89	127.6
MK # 2				
MK # 3				

AZ Mark Station	380021A
Geodetic Azimuth	229° 33 ' 3"
Grid Azimuth	228° 55 ' 1"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380021A	11/2/2020	AHTD	LAWRENCE	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	196,367.2262	0.0020
Easting (M)	497,756.1967	0.0020
Elevation (M)*		

Northing (SFT)	644,248.1413	
Easting (SFT)	1,633,055.1220	
Elevation (SFT)*		

Convergence Angle	0	37	54.1689945
Scale Factor	0.999976119		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	5	54.3897600
Longitude	90	54	51.8157720
Ellipsoid Height (M):	53.823	0.0090	
Geoid Height (M):	-28.086	0.0090	

Location Description

THE INTERSECTION OF US HWY 412 AND STATE HWY 34 IN WALNUT GROVE, AR. GO EAST ON STATE HWY 34 FOR 3.13 MILES TO THE STATION ON THE LEFT. THE POINT IS 54.6' NORTH OF THE CL OF STATE HWY 34 AND 61.6' SOUTH OF A HEADWALL.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	380021
Geodetic Azimuth	49° 32 ' 55"
Grid Azimuth	48° 55 ' 1"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380022	11/3/2020	AHTD	LAWRENCE	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	200,041.2966	0.0020
Easting (M)	498,149.4813	0.0020
Elevation (M)*		
Northing (SFT)	656,302.1539	
Easting (SFT)	1,634,345.4232	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	7	53.4447984	
Longitude	90	54	34.4673684	
Ellipsoid Height (M):	54.319			0.0080
Geoid Height (M):	-28.129			0.0080

Convergence Angle	0	38	4.2640154
Scale Factor	0.999981460		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

THE INTERSECTION OF US HWY 67 AND STATE HWY 34 IN WALNUT RIDGE. GO NORTH ON US HWY 67 FOR 4.02 MILES TO LAWRENCE COUNTY ROAD 414 ON THE RIGHT. GO EAST ON LAWRENCE COUNTY ROAD 414 FOR 2.2 MILES TO LAWRENCE COUNTY ROAD 408 ON THE RIGHT. GO EAST ON LAWRENCE COUNTY ROAD 408 FOR 0.89 MILES TO THE STATION ON THE RIGHT. THE POINT IS 27.6 SOUTH OF THE CL OF LAWRENCE COUNTY ROAD 408, AND 25' EAST OF A FIELD ENTRANCE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	18" PIPE CULVERT	275	18.50	60.7
MK # 2	4 BARB FENCE	3	14.23	46.7
MK # 3	POWER POLE	71	38.25	125.5

AZ Mark Station	380022A
Geodetic Azimuth	272° 54 ' 19"
Grid Azimuth	272° 16 ' 15"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380022A	11/3/2020	AHTD	LAWRENCE	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	200,057.6148	0.0010
Easting (M)	497,737.9553	0.0020
Elevation (M)*		

Northing (SFT)	656,355.6912	
Easting (SFT)	1,632,995.2750	
Elevation (SFT)*		

Convergence Angle	0	37	54.6914070
Scale Factor	0.999981491		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	7	54.1217460	
Longitude	90	54	50.9180004	
Ellipsoid Height (M):	55.530			0.0080
Geoid Height (M):	-28.128			0.0080

Location Description

THE INTERSECTION OF US HWY 67 AND STATE HWY 34 IN WALNUT RIDGE. GO NORTH ON US HWY 67 FOR 4.02 MILES TO LAWRENCE COUNTY ROAD 414 ON THE RIGHT. GO EAST ON LAWRENCE COUNTY ROAD 414 FOR 2.2 MILES TO LAWRENCE COUNTY ROAD 408 ON THE RIGHT. GO EAST ON LAWRENCE COUNTY ROAD 408 FOR 0.64 MILES TO THE STATION ON THE LEFT. THE POINT IS 17.6' NORTH OF THE CL OF LAWRENCE COUNTY ROAD 408, AND 40.0' SOUTHWEST OF THE CL OF A GRAVEL DRIVEWAY.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE PEDESTAL	290	6.46	21.2
MK # 2	POWER POLE	41	2.62	8.6
MK # 3				

AZ Mark Station	380022
Geodetic Azimuth	92° 54 ' 9"
Grid Azimuth	92° 16 ' 15"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380023	12/15/2021	AHTD	LAWRENCE	63	101061

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	209,570.2460	0.0010
Easting (M)	469,966.0732	0.0010
Elevation (M)*		

Northing (SFT)	687,565.0488	
Easting (SFT)	1,541,880.3585	
Elevation (SFT)*		

Convergence Angle	0	27	10.1280262
Scale Factor			0.999997355
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	36	13	11.2629036	
Longitude	91	13	18.6072024	
Ellipsoid Height (M):			82.645	0.0060
Geoid Height (M):			-28.303	0.0060

Location Description

FROM THE INTERSECTION OF U. S. HWY 63 AND AR STATE HWY 115 SOUTH LOCATED IN IMBODEN, LAWRENCE COUNTY ARKANSAS . TRAVEL WEST 2.35 MILES TO THE STATION ON THE RIGHT 45 FEET (13.7M) NORTHEAST OF THE CENTERLINE OF U. S. HWY 63 AND 33 FEET (10.0M) WEST OF OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING NORTHWEST. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMET STAMPED 380023 / 2021, ON TOP OF 5/8 INCH REBAR 4 FOOT IN LENGHT SET 0.04 FEET BELOW THE SURFACE AND AMONG OUTCROPING ROCKS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	113	30.20	99.1
MK # 2	W. END OF 18" COURRAGATED METAL PIPE	147	8.80	28.9
MK # 3	RR CROSS TIE GATE POST	93	28.30	92.8

AZ Mark Station	380023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380023A	12/15/2021	AHTD	LAWRENCE	63	101061

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	209,362.5841	0.0010
Easting (M)	470,209.7541	0.0010
Elevation (M)*		

Northing (SFT)	686,883.7447	
Easting (SFT)	1,542,679.8349	
Elevation (SFT)*		

Convergence Angle	0	27	15.7669018
Scale Factor	0.999996990		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	36	13	4.4632884	
Longitude	91	13	8.9167332	
Ellipsoid Height (M):	65.938			0.0060
Geoid Height (M):	-28.299			0.0060

Location Description

FROM THE INTERSECTION OF U. S. HWY 63 AND AR STATE HWY 115 SOUTH LOCATED IN IMBODEN, LAWRENCE COUNTY ARKANSAS . TRAVEL WEST 2.55 MILES TO THE STATION ON THE LEFT 43 FEET (13.1M) SOUTHWEST OF THE CENTERLINE OF U. S. HWY 63 AND 73 FEET (22.2M) EAST OF THE CENTERLINE OF A PAVED DRIVEWAY LEADING SOUTHWEST, BBB RANCH.THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMET STAMPED 380023A / 2021, ON TOP OF 5/8 INCH REBAR 4 FOOT IN LENGHT SET 0.04 FEET BELOW THE SURFACE AND AMONG OUTCROPING ROCKS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE WITH BOX	293	30.20	99.1
MK # 2	FIBER OPTIC CABLE UTILITY MARKER	252	6.10	20.0
MK # 3	TELEPHONE POLE	163	9.40	30.8

AZ Mark Station	380023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

OWNER DAVE CLEMENTS REQUEST US (ARDOT SURVEYS)TO STAY OFF OF HIS PROPERTY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380024	5/13/2024	ARDOT	LAWRENCE	62/412	101188

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	201,781.2278	0.0010
Easting (M)	475,591.2895	0.0010
Elevation (M)*	110.636	0.0023
Northing (SFT)	662,010.5782	
Easting (SFT)	1,560,335.7556	
Elevation (SFT)*	362.979	

Convergence Angle	0	29	19.6347709
Scale Factor	0.999984451		
Elevation Adjust. Factor	0.9999826379		
Combined Adjust. Factor	0.9999670892		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	8	57.0671304
Longitude	91	9	36.0484488
Ellipsoid Height (M):	82.433	0.0020	
Geoid Height (M):	-28.209		

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND U.S. HWY 63 IN IMBODEN, LAWRENCE COUNTY ARKANSAS TRAVEL SOUTH EAST ALONG U.S. HIGHWAY 62/412 3.90 MILE TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMENT STAMPED 380024,SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 IN REBAR4 FOOT IN LENGTH.THE STATION IS 55 FEET,16.76 METERS EAST OF THE CENTERLINE OF U.S .HWY AND 2 FEET, .61 METERS WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	South East Corner of Ditch Paving	180	11.58	38.0
MK # 2	Combination Pole	354	27.13	89.0
MK # 3				

AZ Mark Station	380024A
Geodetic Azimuth	349 52 52.5
Grid Azimuth	349 23 33.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARHL,ARBT

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380024A	5/13/2024	ARDOT	LAWRENCE	62/412	101188

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	202,143.6046	0.0010
Easting (M)	475,523.4246	0.0010
Elevation (M)*	99.929	0.0020
Northing (SFT)	663,199.4761	
Easting (SFT)	1,560,113.1022	
Elevation (SFT)*	327.851	

Convergence Angle	0	29	18.1269701
Scale Factor	0.999985016		
Elevation Adjust. Factor	0.9999843181		
Combined Adjust. Factor	0.9999693343		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	9	8.8424640
Longitude	91	9	38.6396208
Ellipsoid Height (M):	71.717	0.0000	
Geoid Height (M):	-28.212		

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND U.S. HWY 63 IN IMBODEN, LAWRENCE COUNTY ARKANSAS TRAVEL SOUTH EAST ALONG U.S. HIGHWAY 62/412 3.70 MILE TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMENT STAMPED 380024A 2024, SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 IN REBAR4 FOOT IN LENGTH.THE STATION IS 51 FEET, 15.54 METERS EAST OF THE CENTERLINE OF U.S .HWY AND 9 FEET, 2.74 METERS WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	75	3.05	10.0
MK # 2	Telephone Pedestal	357	15.85	52.0
MK # 3				

AZ Mark Station	380024
Geodetic Azimuth	169 52 52.5
Grid Azimuth	169 23 33.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARHL,ARBT

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380025	5/13/2024	ARDOT	LAWRENCE	62/412	101188

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	206,267.9596	0.0010
Easting (M)	475,221.6283	0.0010
Elevation (M)*	101.190	0.0026
Northing (SFT)	676,730.7975	
Easting (SFT)	1,559,122.9588	
Elevation (SFT)*	331.988	

Convergence Angle	0	29	11.9171824
Scale Factor	0.999991660		
Elevation Adjust. Factor	0.9999841202		
Combined Adjust. Factor	0.9999757804		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	11	22.7309568
Longitude	91	9	49.3112088
Ellipsoid Height (M):	72.953	0.0040	
Geoid Height (M):	-28.249		

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND U.S. HWY 63 IN IMBODEN, LAWRENCE COUNTY ARKANSAS TRAVEL SOUTH EAST ALONG U.S. HIGHWAY 62/412 1.10 MILE TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMENT STAMPED 380025 2024, SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 IN REBAR 4 FOOT IN LENGTH.THE STATION IS 55 FEET, 16.76 METERS SOUTH EAST OF THE CENTERLINE OF U.S .HWY AND 7 FEET, 2.13 METERS NORTH WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	339	12.80	42.0
MK # 2				
MK # 3				

AZ Mark Station	380025A
Geodetic Azimuth	328 16 21.1
Grid Azimuth	327 47 11.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARHL,ARBT

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380025A	5/13/2024	ARDOT	LAWRENCE	62/412	101188

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	206,589.3152	0.0010
Easting (M)	475,019.1542	0.0010
Elevation (M)*	84.468	0.0027
Northing (SFT)	677,785.1116	
Easting (SFT)	1,558,458.6751	
Elevation (SFT)*	277.126	

Convergence Angle	0	29	7.2651719
Scale Factor	0.999992197		
Elevation Adjust. Factor	0.9999867444		
Combined Adjust. Factor	0.9999789415		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	11	33.2122488	
Longitude	91	9	57.3057396	
Ellipsoid Height (M):	56.238			0.0040
Geoid Height (M):	-28.253			

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND U.S. HWY 63 IN IMBODEN, LAWRENCE COUNTY ARKANSAS TRAVEL SOUTH EAST ALONG U.S. HIGHWAY 62/412 0.85 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 3 INCH ARDOT GPS MONUMENT STAMPED 380025A 2024, SET JUST BELOW GROUND SURFACE ON TOP OF A 5/8 IN REBAR4 FOOT IN LENGTH.THE STATION IS 72 FEET, 21.95 METERS SOUTH WEST OF THE CENTERLINE OF U.S .HWY AND 1.5 FEET, 0.45 METERS NORTH EAST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Steel Pipe Fence Post	304	0.61	2.0
MK # 2	Steel Pipe Fence Post	230	2.44	8.0
MK # 3	Steel Pipe Fence Post	15	2.13	7.0

AZ Mark Station	380025
Geodetic Azimuth	148 16 21.1
Grid Azimuth	147 47 11.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARHL,ARBT

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS Y 315 AND Z 315 BY CREW S5101 DURING JOB 101188 IN MAY 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380026	9/9/2025	ARDOT	Lawrence	117	C38016

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	193,981.6270	0.0020
Easting (M)	462,431.9972	0.0010
Elevation (M)*		
Northing (SFT)	636,421.3879	
Easting (SFT)	1,517,162.3108	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	36	4	47.3445804	
Longitude	91	18	24.6495744	
Ellipsoid Height (M):	81.837			0.0070
Geoid Height (M):	-28.196			0.0070

Convergence Angle	0	24	12.0422368
Scale Factor	0.999973258		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the intersection of Hwy 115 and Hwy 117 in Smithville. Go West on 117 for 0.2 miles to the station on the Right/North. The station is 43.1' North of the centerline of Hwy 115/117. The station mark is a standard 2 1/2 in. aluminium cap stamped "380023 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FOC MARKER	284	16.30	53.5
MK # 2	ROW MARKER	53	3.00	9.8
MK # 3	17" BLACK WALNUT	3	13.60	44.6

AZ Mark Station	380026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
380026A	9/9/2025	ARDOT	Lawrence	117	C38016

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	193,964.6460	0.0020
Easting (M)	462,816.3195	0.0020
Elevation (M)*		

Northing (SFT)	636,365.6761	
Easting (SFT)	1,518,423.2082	
Elevation (SFT)*		

Convergence Angle	0	24	20.9777027
Scale Factor			0.999973231
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	36	4	46.7055984
Longitude	91	18	9.2938788
Ellipsoid Height (M):	75.132		0.0070
Geoid Height (M):	-28.196		0.0070

Location Description

To reach from the intersection of Hwy 115 and Hwy 117 in Smithville. Go East on 117 for 265' to the station on the Right/South. The station is 15.8' South of the centerline of Hwy 117, 21. 4' West of a gravel driveway to storage units, and 63.6' East of a gravel driveway. The station mark is a standard 2 1/2 in. aluminium cap stamped "380023A 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUARDRAIL	87	16.60	54.5
MK # 2	COMBINATION POLE	309	20.80	68.2
MK # 3				

AZ Mark Station	380026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARPG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390001 RESET	4/15/2002	AHTD	LEE	1	110229

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	48,267.7589	
Easting (M)	512,562.8780	
Elevation (M)*	67.666	
Northing (SFT)	158,358.4723	
Easting (SFT)	1,681,633.3756	
Elevation (SFT)*	222.001	

Convergence Angle	0	42	55.5741388
Scale Factor	1.000038084		
Elevation Adjust. Factor	0.9999893811		
Combined Adjust. Factor	1.0000274647		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	45	43.4341044
Longitude	90	46	13.8477432
Ellipsoid Height (M):	40.888		
Geoid Height (M):	-26.703		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 ON THE NORTH EDGE OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 21.80 METERS WEST OF THE CENTER OF STATE HIGHWAY 1 AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390001 RESET 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER POST	150	28.30	92.8
MK # 2				
MK # 3				

AZ Mark Station	390001A
Geodetic Azimuth	325 00 33
Grid Azimuth	324 17 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	H 349
Ref Mon # 3	390006

Comments

ELEVATION BY 3 WIRE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390001A	8/25/1994	AHTD	LEE	1	110229, 110217

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	48,669.4429	
Easting (M)	512,274.1720	
Elevation (M)*	67.749	
Northing (SFT)	159,676.3306	
Easting (SFT)	1,680,686.1793	
Elevation (SFT)*	222.273	

Convergence Angle	0	42	49.0833517
Scale Factor	1.000037180		
Elevation Adjust. Factor	0.9999893681		
Combined Adjust. Factor	1.0000265477		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	45	56.5845048
Longitude	90	46	25.0022316
Ellipsoid Height (M):	39.960		
Geoid Height (M):	-26.700		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 ON THE NORTH EDGE OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.72 MILES TO THE STATION ON THE RIGHT. THE STATION IS 21.10 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 1, 7.0 METERS SOUTHEAST OF A FIELD ENTRANCE AND 0.74 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390001A 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER POST	318	2.60	8.5
MK # 2	16" METAL CULVERT	31	8.00	26.2
MK # 3				

AZ Mark Station	390001 RESET
Geodetic Azimuth	145 00 26
Grid Azimuth	144 17 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	H 349
Ref Mon # 3	390006

Comments

ELEVATION BY 3 WIRE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390002	8/25/1994	AHTD	LEE	1	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	621,868.1820
Easting (M)	512,915.9760
Elevation (M)*	61.241
Northing (SFT)	2,040,245.8604
Easting (SFT)	1,682,791.8313
Elevation (SFT)*	200.922
Convergence Angle	0 41 22.1669447
Scale Factor	0.999978123
Elevation Adjust. Factor	0.9999903894
Combined Adjust. Factor	0.9999685126

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 39 39.1753656
Longitude	90 46 5.1094380
Ellipsoid Height (M):	33.707
Geoid Height (M):	-27.534

Location Description

FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 11.265 KM (7.0 MILES) TO THE JCT. WITH HWY. 121. CONTINUE AHEAD ON HWY. 1 FOR 0.418 KM (0.26 MILES) TO THE STATION ON THE LEFT. THE STATION IS 17.9 METERS WEST OF THE CENTERLINE OF HWY. 1 AND 0.45 METERS EAST OF A WITNESS POST AND A TWO INCH IRON PIPE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "390002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WIITH THE GROUND

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	8	10.55	34.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	390002A
Geodetic Azimuth	3 58 50.97874
Grid Azimuth	3 17 28.818944

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	GIL
Ref Mon # 3	RIDDELL

Comments

Cross Reference Job: 110218

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390002A	8/25/1994	AHTD	LEE	1	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	622,446.0320
Easting (M)	512,949.2070
Elevation (M)*	61.844
Northing (SFT)	2,042,141.6900
Easting (SFT)	1,682,900.8566
Elevation (SFT)*	202.900

Convergence Angle	0	41	23.0502810
Scale Factor			0.999979119
Elevation Adjust. Factor			0.9999902948
Combined Adjust. Factor			0.9999694140

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	39	57.9135888
Longitude	90	46	3.5311800
Ellipsoid Height (M):	34.308		
Geoid Height (M):	-27.536		

Location Description

FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 11.265 KM (7.0 MILES) TO THE JCT. WITH HWY. 121. CONTINUE AHEAD ON HWY. 1 FOR 1.013 KM (0.63 MILES) TO THE STATION ON THE RIGHT. THE STATION IS ABOUT 112 METERS SOUTH OF A FIELD ENTRANCE, 17.3 METERS EAST OF THE CENTERLINE OF HWY. 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "390002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	390002
Geodetic Azimuth	183 58 51.87638
Grid Azimuth	183 17 28.81894

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	GIL
Ref Mon # 3	RIDDELL

Comments

Cross Reference Job: 110218

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390003	12/12/2000	AHTD	LEE	79	110387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	50,082.1469
Easting (M)	487,693.9260
Elevation (M)*	
Northing (SFT)	164,311.1770
Easting (SFT)	1,600,042.4889
Elevation (SFT)*	

Convergence Angle	0	33	26.9875184
Scale Factor			1.000033463
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	46	51.2714496
Longitude	91	2	30.9700536
Ellipsoid Height (M):	29.448		
Geoid Height (M):	-26.638		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 39 LOCATED IN MONROE, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 8.047 KM (5.00 MI) TO THE JUNCTION OF LEE COUNTY ROAD 905 AND THE STATION ON THE LEFT. THE STATION IS 16.25 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79, 6.40 METERS SOUTHWEST OF THE CENTER OF LEE COUNTY ROAD 905, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 525.876 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	282	24.10	79.1
MK # 2				
MK # 3				

AZ Mark Station	390003A
Geodetic Azimuth	316 47 12
Grid Azimuth	316 13 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	540002
Ref Mon # 3	480005

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390003A	12/12/2000	AHTD	LEE	N/A	110387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	50,461.8999
Easting (M)	487,330.1270
Elevation (M)*	
Northing (SFT)	165,557.0833
Easting (SFT)	1,598,848.9250
Elevation (SFT)*	

Convergence Angle	0	33	18.7462521
Scale Factor	1.000032627		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	47	3.7084416
Longitude	91	2	45.1327596
Ellipsoid Height (M):	30.452		
Geoid Height (M):	-26.642		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 39 LOCATED IN MONROE, GO NORTHEAST ON U.S. HIGHWAY 79 FOR 8.047 KM (5.00 MI) TO THE JUNCTION OF LEE COUNTY ROAD 905, TURN NORTH (LEFT) ON COUNTY ROAD 905 FOR .531 KM (.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.60 METERS SOUTHWEST OF THE CENTER OF LEE COUNTY ROAD 905, AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 525.876 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	318	12.60	41.3
MK # 2	POWER POLE	6	20.00	65.6
MK # 3				

AZ Mark Station	390003
Geodetic Azimuth	136 47 04
Grid Azimuth	136 13 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	540002
Ref Mon # 3	480005

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390004	12/12/2000	AHTD	LEE	78	R10087

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	49,901.7759	
Easting (M)	494,287.8950	
Elevation (M)*	61.887	
Northing (SFT)	163,719.4098	
Easting (SFT)	1,621,676.2022	
Elevation (SFT)*	203.041	

Convergence Angle	0	35	57.8451127
Scale Factor	1.000034003		
Elevation Adjust. Factor	0.9999902880		
Combined Adjust. Factor	1.0000242907		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	46	43.2585228
Longitude	90	58	11.7196320
Ellipsoid Height (M):	35.262		
Geoid Height (M):	-26.625		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 78 LOCATED ABOUT 17.70 KM (11.00 MI) WEST OF MARIANNA, GO NORTHWEST ON STATE HIGHWAY 78 FOR 0.467 KM (0.29 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 78 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 434.448 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	303	21.30	69.9
MK # 2				
MK # 3				

AZ Mark Station	MORO
Geodetic Azimuth	143 48 23
Grid Azimuth	143 12 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	540002
Ref Mon # 3	480005

Comments

ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK P 176, RUN BY CREW S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390005	12/12/2000	AHTD	LEE	79	110387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	49,642.4229
Easting (M)	507,799.1090
Elevation (M)*	
Northing (SFT)	162,868.5158
Easting (SFT)	1,666,004.2434
Elevation (SFT)*	

Convergence Angle	0	41	6.9601679
Scale Factor	1.000034905		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	46	29.9279244
Longitude	90	49	20.5020372
Ellipsoid Height (M):	37.875		
Geoid Height (M):	-26.675		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 243 NORTH, LOCATED ON THE WEST SIDE OF MARIANNA, GO WEST ON U.S. HIGHWAY 79 FOR 2.607 KM (1.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.08 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.549 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	390005A
Geodetic Azimuth	268 44 11
Grid Azimuth	268 03 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	540002
Ref Mon # 3	480005

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390005A	12/12/2000	AHTD	LEE	79	110387

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	49,624.7539
Easting (M)	507,279.8500
Elevation (M)*	
Northing (SFT)	162,810.5468
Easting (SFT)	1,664,300.6412
Elevation (SFT)*	
Convergence Angle	0 40 55.0733471
Scale Factor	1.000034931
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 46 29.5556448
Longitude	90 49 40.9296684
Ellipsoid Height (M):	35.942
Geoid Height (M):	-26.672

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 243 NORTH, LOCATED ON THE WEST SIDE OF MARIANNA, GO WEST ON U.S. HIGHWAY 79 FOR 3.122 KM (1.94 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.25 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 519.549 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TRANSMISSION LINE POWER POLE	223	29.90	98.1
MK # 2				
MK # 3				

AZ Mark Station	390005
Geodetic Azimuth	88 43 59
Grid Azimuth	88 03 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	540002
Ref Mon # 3	480005

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390006	12/12/2000	AHTD	LEE	1	110229, R10088,110217

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	36,628.6119	
Easting (M)	512,974.4960	
Elevation (M)*	61.469	
Northing (SFT)	120,172.3709	
Easting (SFT)	1,682,983.8256	
Elevation (SFT)*	201.669	

Convergence Angle	0	43	1.6583516
Scale Factor			1.000065772
Elevation Adjust. Factor			0.9999903536
Combined Adjust. Factor			1.0000561250

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	39	25.6100292
Longitude	90	46	3.3919572
Ellipsoid Height (M):	34.674		
Geoid Height (M):	-26.794		

Location Description

TO REACH THE STATION FROM THE LEE AND PHILLIPS COUNTY LINE LOCATED ABOUT 14.484 KM " 9 MI" SOUTH OF MARIANNA ON STATE HIGHWAY 1, GO NORTH ON STATE HIGHWAY 1 FOR 1.609KM (1.00MI) TO THE JUNCTION OF STATE HIGHWAY 121 AND THE STATION ON THE RIGHT. THE STATION MARK IS 27.30 METERS EAST OF THE CENTER OF HIGHWAY 1, 12.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 121, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 471.071 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVEL FROM NGS BENCH MARK Z 171 RESET, RUN BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	337	23.80	78.1
MK # 2	WEST END CONCRETE HEAD WALL	53	9.85	32.3
MK # 3				

AZ Mark Station	390006A
Geodetic Azimuth	182 33 31
Grid Azimuth	181 50 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	MORO TRI
Ref Mon # 2	540002
Ref Mon # 3	540006

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012
********** This Monument was reported destroyed on 04/24/2014**********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390006A	12/12/2000	AHTD	LEE	1	110229, R10088

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	36,157.7619	
Easting (M)	512,959.3570	
Elevation (M)*	61.263	
Northing (SFT)	118,627.5905	
Easting (SFT)	1,682,934.1571	
Elevation (SFT)*	200.994	

Convergence Angle	0	43	1.1777960
Scale Factor	1.000066961		
Elevation Adjust. Factor	0.9999903859		
Combined Adjust. Factor	1.0000573463		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	39	10.3385304
Longitude	90	46	4.2177972
Ellipsoid Height (M):	34.465		
Geoid Height (M):	-26.798		

Location Description

TO REACH THE STATION FROM THE LEE AND PHILLIPS COUNTY LINE LOCATED ABOUT 14.484 KM " 9 MI" SOUTH OF MARIANNA ON STATE HIGHWAY 1, GO NORTH ON STATE HIGHWAY 1 FOR 1.143 KM (0.71MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.00 METERS EAST OF THE CENTER OF HIGHWAY 1, 6.35 METERS NORTH OF A FIELD ENTRANCE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390006A 2000" SET ON TOP AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 471.071 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK Z 171 RESET, RUN BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	150	18.65	61.2
MK # 2	SOUTH END CORRIGATED METAL PIPE	160	12.75	41.8
MK # 3				

AZ Mark Station	390006
Geodetic Azimuth	2 33 31
Grid Azimuth	1 50 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	MORO TRI
Ref Mon # 2	540002
Ref Mon # 3	540006

Comments

ELEVATION BY 3 WIRE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390007	12/12/2000	AHTD	LEE	121	R10088

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	39,296.3389	
Easting (M)	501,550.1710	
Elevation (M)*	59.404	
Northing (SFT)	128,924.7385	
Easting (SFT)	1,645,502.5194	
Elevation (SFT)*	194.895	

Convergence Angle	0	38	41.3025117
Scale Factor	1.000058804		
Elevation Adjust. Factor	0.9999906777		
Combined Adjust. Factor	1.0000494811		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	40	56.5763484	
Longitude	90	53	30.8163084	
Ellipsoid Height (M):	32.702			
Geoid Height (M):	-26.702			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 121 AND STATE HIGHWAY 243 SOUTH LOCATED ABOUT 8.047 KM (5 MI) WEST OF RONDO, GO NORTH ON STATE HIGHWAY 121 FOR 1.046 KM (0.65 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.45 METERS WEST OF THE CENTER OF STATE HIGHWAY 121 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.465 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVEL FROM NGS BENCH MARK J 172 RUN BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	177	34.00	111.5
MK # 2				
MK # 3				

AZ Mark Station	390007A
Geodetic Azimuth	342 05 13
Grid Azimuth	341 26 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	MORO TRI
Ref Mon # 2	540002
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390007A	12/12/2000	AHTD	LEE	121	R10088

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	39,768.9099
Easting (M)	501,391.5190
Elevation (M)*	58.161
Northing (SFT)	130,475.1652
Easting (SFT)	1,644,982.0086
Elevation (SFT)*	190.817

Convergence Angle	0	38	37.7976234
Scale Factor			1.000057644
Elevation Adjust. Factor			0.9999908727
Combined Adjust. Factor			1.0000485162

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	41	11.9680116
Longitude	90	53	36.8394972
Ellipsoid Height (M):	31.465		
Geoid Height (M):	-26.696		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 121 AND STATE HIGHWAY 243 SOUTH, LOCATED ABOUT 8.047 KM (5 MI) WEST OF RONDO, GO NORTH ON STATE HIGHWAY 121 FOR 1.609 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 121 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 498.465 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK J 172, RUN BY CREW S5102.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	203	4.30	14.1
MK # 2				
MK # 3				

AZ Mark Station	390007
Geodetic Azimuth	162 05 09
Grid Azimuth	161 26 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	MORO TRI
Ref Mon # 2	540002
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390008	4/15/2002	AHTD	LEE	1	110229

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	42,262.4869	
Easting (M)	512,943.6610	
Elevation (M)*	70.527	
Northing (SFT)	138,656.1758	
Easting (SFT)	1,682,882.6611	
Elevation (SFT)*	231.387	

Convergence Angle	0	43	2.5656589
Scale Factor	1.000051962		
Elevation Adjust. Factor	0.9999889321		
Combined Adjust. Factor	1.0000408936		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	42	28.4251860
Longitude	90	46	1.8327396
Ellipsoid Height (M):	43.743		
Geoid Height (M):	-26.740		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 243, LOCATED ABOUT 4.0 MILES SOUTH OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.55 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390008 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	JONES TRI STATION
Geodetic Azimuth	356 58 23
Grid Azimuth	356 15 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	H 349
Ref Mon # 3	390006

Comments

ELEVATION BY 3 WIRE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390009	4/15/2002	AHTD	LEE	1	110229

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	53,945.0720	
Easting (M)	510,000.9250	
Elevation (M)*	65.062	
Northing (SFT)	176,984.7904	
Easting (SFT)	1,673,228.0348	
Elevation (SFT)*	213.458	

Convergence Angle	0	41	58.5455402
Scale Factor	1.000025717		
Elevation Adjust. Factor	0.9999897898		
Combined Adjust. Factor	1.0000155065		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	48	48.6749088
Longitude	90	47	51.8520120
Ellipsoid Height (M):	38.354		
Geoid Height (M):	-26.691		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121, LOCATED ON THE NORTH EDGE OF FELTON, GO NORTH ON STATE HIGHWAY 1 FOR 0.30 MILES TO THE STATION ON THE LEFT. THE STATION IS 29.30 METERS SOUTH OF THE CENTER OF A DRIVE, 14.30 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END REINFORCED CONCRETE PIPE	9	25.35	83.2
MK # 2				
MK # 3				

AZ Mark Station	390009A
Geodetic Azimuth	189 03 31
Grid Azimuth	188 21 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	H 349
Ref Mon # 3	390006

Comments

ELEVATION BY 3 WIRE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390009A	4/15/2002	AHTD	LEE	121	110229

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	53,411.5019	
Easting (M)	509,922.5240	
Elevation (M)*	65.954	
Northing (SFT)	175,234.2358	
Easting (SFT)	1,672,970.8142	
Elevation (SFT)*	216.384	

Convergence Angle	0	41	56.6016301
Scale Factor	1.000026837		
Elevation Adjust. Factor	0.9999896498		
Combined Adjust. Factor	1.0000164865		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	48	31.3929216
Longitude	90	47	55.1926428
Ellipsoid Height (M):	39.241		
Geoid Height (M):	-26.689		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121, LOCATED ON THE NORTH EDGE OF FELTON, GO WEST ON STATE HIGHWAY 121 FOR 0.07 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.80 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 121 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390009A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	262	10.80	35.4
MK # 2				
MK # 3				

AZ Mark Station	390009
Geodetic Azimuth	9 03 29
Grid Azimuth	8 21 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	H 349
Ref Mon # 3	390006

Comments

ELEVATION BY 3 WIRE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390010	4/15/2002	AHTD	LEE	1	110229

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	59,467.0940	
Easting (M)	510,387.1150	
Elevation (M)*	67.313	
Northing (SFT)	195,101.6242	
Easting (SFT)	1,674,495.0598	
Elevation (SFT)*	220.843	

Convergence Angle	0	42	8.9367753
Scale Factor	1.000014521		
Elevation Adjust. Factor	0.9999894365		
Combined Adjust. Factor	1.0000039574		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	51	47.6978832
Longitude	90	47	33.9945612
Ellipsoid Height (M):	40.562		
Geoid Height (M):	-26.714		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121 ON THE NORTH EDGE OF FELTON, GO NORTH ON STATE HIGHWAY 1 FOR 3.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.10 METERS EAST OF THE CENTER OF SOUTH BOUND HIGHWAY 1, 11.70 METERS WEST OF THE CENTER OF NORTH BOUND HIGHWAY 1, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	390010A
Geodetic Azimuth	0 49 46
Grid Azimuth	0 07 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	H 349
Ref Mon # 3	390006

Comments

ELEVATION BY 3 WIRE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390010A	4/15/2002	AHTD	LEE	1	110229

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	60,036.0390	
Easting (M)	510,388.3750	
Elevation (M)*		
Northing (SFT)	196,968.2380	
Easting (SFT)	1,674,499.1936	
Elevation (SFT)*		

Convergence Angle	0	42	9.1254531
Scale Factor	1.000013409		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	52	6.1583016
Longitude	90	47	33.6703164
Ellipsoid Height (M):	41.074		
Geoid Height (M):	-26.716		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 121, LOCATED ON THE NORTH EDGE OF FELTON, GO NORTH ON STATE HIGHWAY 1 FOR 4.11 MILES TO THE STATION ON THE LEFT. THE STATION IS 15.10 METERS EAST OF THE CENTER OF SOUTH BOUND HIGHWAY 1, 11.00 METERS WEST OF THE CENTER OF NORTH BOUND HIGHWAY 1, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "390010A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	390010
Geodetic Azimuth	180 49 46
Grid Azimuth	180 07 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	H 349
Ref Mon # 3	390006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390011	2/9/2012	AHTD	Lee	131	110570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	56,980.9287	
Easting (M)	527,477.8287	
Elevation (M)*	60.479	
Northing (SFT)	186,944.9302	
Easting (SFT)	1,730,566.8430	
Elevation (SFT)*	198.422	

Convergence Angle	0	48	39.6251005
Scale Factor	1.000019931		
Elevation Adjust. Factor	0.9999905089		
Combined Adjust. Factor	1.0000104397		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	34	50	19.7040120
Longitude	90	36	22.5924120
Ellipsoid Height (M):	33.499		
Geoid Height (M):	-26.943		

Location Description

Starting at the junction of highway 131 and 79 go south on 131 for 1.3 miles to the station on the left. The station is a standard alum. cap with a 4 foot rebar.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	east of the centerline of highway 131	250	9.45	31.0
MK # 2	south east of a power pole	283	24.08	79.0
MK # 3	east of the witness post		0.61	2.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390011A	2/9/2012	AHTD	Lee	131	110570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	57,451.3301	
Easting (M)	527,351.0731	
Elevation (M)*	60.047	
Northing (SFT)	188,488.2388	
Easting (SFT)	1,730,150.9790	
Elevation (SFT)*	197.003	

Convergence Angle	0	48	36.8747473
Scale Factor	1.000018976		
Elevation Adjust. Factor	0.9999905768		
Combined Adjust. Factor	1.0000095526		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	34	50	35.0252160
Longitude	90	36	27.3189240
Ellipsoid Height (M):	33.061		
Geoid Height (M):	-26.943		

Location Description

Starting at the junction of highways 131 and 79 go south on 131 for 1 mile to the station on the right. The station is a standard alum. cap with a 4 foot rebar.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	west of the centerline of highway 131	90	10.36	34.0
MK # 2	east of witness post		1.52	5.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390012	2/29/2016	AHTD	Lee	78	110616

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	42,915.8666	0.0020
Easting (M)	495,854.6277	0.0020
Elevation (M)*	54.999	
Northing (SFT)	140,799.8057	
Easting (SFT)	1,626,816.3910	
Elevation (SFT)*	180.443	

Convergence Angle	0	36	31.9992470	
Scale Factor	1.000049943			
Elevation Adjust. Factor	0.9999913689			
Combined Adjust. Factor	1.0000413115			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID12A			
Latitude	34	42	56.0437092	
Longitude	90	57	13.0253796	
Ellipsoid Height (M):	28.260			0.0110
Geoid Height (M):	-26.741			

Location Description

To reach from the intersection of hwy 121 and 78 in Aubrey. Go west on hwy 78 for 3.0 miles to the station on the right. The station is 1 FT. East of a witness post, 38 FT. West of the centerline of hwy.78,and 59 FT. North of the center of Lee Co. Rd. 157. The station mark is a 2 1/2 in. Cap stamped "390012 2016" set ontop of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole with guy	11	29.50	96.8
MK # 2				
MK # 3				

AZ Mark Station	390012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	MSOX
Ref Mon # 3	ARPB

Comments

Elevation determined by static GPS holding NGS BM's M during job 1106156by crew s5102 in February 2016.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390012A	2/29/2016	AHTD	LEE	78	110616

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	42,238.7001	0.0020
Easting (M)	495,849.9998	0.0020
Elevation (M)*	54.918	
Northing (SFT)	138,578.1352	
Easting (SFT)	1,626,801.2077	
Elevation (SFT)*	180.177	

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID12A			
Latitude	34	42	34.0727004	
Longitude	90	57	13.4899992	
Ellipsoid Height (M):	28.169			0.0110
Geoid Height (M):	-26.745			

Convergence Angle	0	36	31.7288852
Scale Factor	1.000051548		
Elevation Adjust. Factor	0.9999913816		
Combined Adjust. Factor	1.0000429292		

Location Description

TO REACH FROM THE INTERSECTION OF HWY 121 AND HWY 78 IN AUBREY. GO WEST ON HWY 78 FOR 3.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7 FT. NORTH OF A WITNESS POST, 18.5 FT. WEST OF THE CENTERLINE OF HWY 78, AND 17 FT. SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "390012A 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH TRANSFORMER	110	19.30	63.3
MK # 2				
MK # 3				

AZ Mark Station	390012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	MSOX
Ref Mon # 3	ARPB

Comments

Elevation determined by static GPS holding NGS BM's M during job 1106156by crew s5102 in February 2016.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390013	12/2/2019	AHTD	LEE	79	110568, AIRBORNE 2020

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	633,543.2604	0.0030
Easting (M)	486,111.2956	0.0030
Elevation (M)*		

Northing (SFT)	2,078,549.8468	
Easting (SFT)	1,594,850.1423	
Elevation (SFT)*		

Convergence Angle	0	31	35.3315718
Scale Factor	1.000000455		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	46	7.2606072
Longitude	91	3	33.6088800
Ellipsoid Height (M):	29.117		0.0150
Geoid Height (M):	-26.740		0.0150

Location Description

TO REACH FROM THE THE INTERSECTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79 IN MONROE COUNTY, ARKANSAS. TRAVEL NORTH EAST ALONG U.S. HIGHWAY 79, 7.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390013, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 68 FEET SOUTH EAST OF THE CENTER OF U.S. HIGHWY 79 AND 133 FEET SOUTH WEST OF THE CENTER OF LEE COUNTY ROAD NUMBER 135 AND 8 FEET NORTH WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	143	2.74	9.0
MK # 2	TELEPHONE PEDESTAL	221	51.82	170.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

STATIC GPS DERIVED ELEV. 183.2578

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390013A	12/2/2019	AHTD	LEE	79	110568, AIRBORNE 2020

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	633,211.3956	0.0030
Easting (M)	486,503.1570	0.0030
Elevation (M)*	56.348	
Northing (SFT)	2,077,461.0537	
Easting (SFT)	1,596,135.7743	
Elevation (SFT)*	184.869	

Convergence Angle	0	31	43.8886315
Scale Factor	0.999999780		
Elevation Adjust. Factor	0.9999911572		
Combined Adjust. Factor	0.9999909372		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	45	56.3745924	
Longitude	91	3	18.3199716	
Ellipsoid Height (M):	29.610			0.0150
Geoid Height (M):	-26.737			0.0150

Location Description

TO REACH FROM THE INTERSECTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79 IN MONROE COUNTY, ARKANSAS. TRAVEL NORTH EAST ALONG U.S. HIGHWAY 79, 7.1 MILES TO LEE COUNTY ROAD NUMBER 135,ON THE RIGHT, THEN TRAVEL SOUTH EAST ALONG LEE COUNTY ROAD NUMBER 135, 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390013A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 22 FEET NORTH EAST OF THE CENTER OF LEE COUNTY ROAD NUMBER 135 AND 4 FEET SOUTH WEST OF A WITNESS POST. 21 FEET NORTH OF THE CENTER OF A FIELD ENTRANCE LEADING EAST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF 24" STEEL CULVERT	72	6.10	20.0
MK # 2	SOUTH END OF 24" STEEL CULVERT	118	14.63	48.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #390013 WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390014	12/2/2019	AHTD	LEE	79	110568, AIRBORNE 2020

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	634,408.7063	0.0020
Easting (M)	499,920.1236	0.0020
Elevation (M)*		

Northing (SFT)	2,081,389.2306	
Easting (SFT)	1,640,154.6055	
Elevation (SFT)*		

Convergence Angle	0	36	39.4490640
Scale Factor			1.000001930
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	46	30.8959212	
Longitude	90	54	30.2418036	
Ellipsoid Height (M):			35.869	0.0150
Geoid Height (M):			-26.749	0.0150

Location Description

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 79, 7.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390014, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .2 FT BELOW THE GROUND SURFACE, 48 FEET NORTH OF THE CENTER OF U.S. HIGHWY 79 AND 64 FEET EAST OF THE CENTER OF ARKANSAS HIGHWAY 121 NORTH AND 7 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	187	33.53	110.0
MK # 2	CENTER OF EAST HEADWALL	250	12.80	42.0
MK # 3	POWER POLE	292	4.57	15.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

STATIC GPS DERIVED ELEV. 205.4409

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390014A	12/2/2019	AHTD	LEE	79	110568, AIRBORNE 2020

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	634,794.7004	0.0030
Easting (M)	499,912.8462	0.0020
Elevation (M)*	62.415	
Northing (SFT)	2,082,655.6129	
Easting (SFT)	1,640,130.7296	
Elevation (SFT)*	204.773	

Convergence Angle	0	36	39.3794799
Scale Factor	1.000002717		
Elevation Adjust. Factor	0.9999902052		
Combined Adjust. Factor	0.9999929221		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	46	43.4235936	
Longitude	90	54	30.3661296	
Ellipsoid Height (M):	35.663			0.0150
Geoid Height (M):	-26.750			0.0150

Location Description

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 79, 7.7 MILES TO STATE HIGHWAY 121 THEN TRAVEL NORTH ALONG STATE HIGHWAY 121, 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390014A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .2 FT BELOW THE GROUND SURFACE, 41 FEET EAST OF THE CENTER OF ARKANSAS HIGHWAY 121 NORTH AND 5 FEET WEST OF A WITNESS POST..

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	85	1.83	6.0
MK # 2	IRRIGATION WELL	41	15.24	50.0
MK # 3	POWER POLE	153	29.26	96.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #390014 WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390015	12/2/2019	AHTD	LEE	79	110707, AIRBORNE 2020

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	635,556.1507	0.0020
Easting (M)	512,695.1708	0.0020
Elevation (M)*		
Northing (SFT)	2,085,153.8044	
Easting (SFT)	1,682,067.4062	
Elevation (SFT)*		

Convergence Angle	0	41	20.9325366
Scale Factor	1.000003982		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	47	3.4257876	
Longitude	90	46	7.3149564	
Ellipsoid Height (M):	40.561		0.0130	
Geoid Height (M):	-26.833		0.0130	

Location Description

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 79, 0.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390015, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 37 FEET SOUTH EAST OF THE CENTER OF U.S. HIGHWY 79 AND 12 FEET NORTH OF A FLAG POLE. THE STATION IS SET IN THE LAWN OF THE LEE COUNTY ARDOT MAINTENANCE HEADQUARTERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	143	3.66	12.0
MK # 2	CENTER OF SOUTH HEAD WALL	32	14.63	48.0
MK # 3	NORTH EAST COR. OF METAL SHOP BLD.	72	21.64	71.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

STATIC GPS DERIVED ELEV. 221.1085

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
390015A	12/2/2019	AHTD	LEE	79	110707, AIRBORNE 2020

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	635,777.5139	0.0020
Easting (M)	512,924.3078	0.0020
Elevation (M)*	64.023	
Northing (SFT)	2,085,880.0602	
Easting (SFT)	1,682,819.1665	
Elevation (SFT)*	210.048	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	47	10.5191592	
Longitude	90	45	58.1981508	
Ellipsoid Height (M):	37.193			0.0130
Geoid Height (M):	-26.835			0.0130

Convergence Angle	0	41	26.0351277
Scale Factor	1.000004432		
Elevation Adjust. Factor	0.9999899529		
Combined Adjust. Factor	0.9999943848		

Location Description

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 79 IN MARIANNA, LEE COUNTY, ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 79, 0.7 MILES TO THE STATION ON THE LEFT. THE STATION IS A 2" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 390015A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 48 FEET NORTH WEST OF THE CENTER OF U.S. HIGHWY 79 IN THE CENTER OF A GRAVEL PARKING AREA.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	32	32.61	107.0
MK # 2	COMBINATION POLE	244	34.75	114.0
MK # 3	SOUTH WEST COR. OF METAL SHOP BLD.	5	41.15	135.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARPB, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #390015, WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400001	1/11/1993	AHTD	LINCOLN	425	001930,R20109,R20125

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	536,477.6941
Easting (M)	413,739.3990
Elevation (M)*	
Northing (SFT)	1,760,093.9014
Easting (SFT)	1,357,410.0116
Elevation (SFT)*	

Convergence Angle	0	4	59.3156530
Scale Factor			0.999921327
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	53	49.4897676
Longitude	91	51	5.2123752
Ellipsoid Height (M):	77.531		
Geoid Height (M):	-25.733		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212, LOCATED IN STAR CITY, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.31 KM (3.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.00 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 27.0 FEET SOUTHEAST OF A DRIVEWAY, AND 7.00 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400001". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN CROSS TIE	233	37.07	121.6
MK # 2	NBC IN CROSS TIE	276	31.09	102.0
MK # 3	NBC IN CROSS TIE	167	17.37	57.0

AZ Mark Station	93400001A AZ MK
Geodetic Azimuth	180 31 02
Grid Azimuth	180 26 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400001A AZ MK	1/11/1993	AHTD	LINCOLN	425	001930,R20109,R20125

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	535,918.5061	
Easting (M)	413,735.1620	
Elevation (M)*		
Northing (SFT)	1,758,259.2988	
Easting (SFT)	1,357,396.1107	
Elevation (SFT)*		

Convergence Angle	0	4	59.2056765
Scale Factor			0.999921541
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	53	31.3397340
Longitude	91	51	5.4088704
Ellipsoid Height (M):	89.495		
Geoid Height (M):	-25.731		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212, LOCATED IN STAR CITY, GO SOUTH ON U.S. HIGHWAY 425 FOR 5.873 KM (3.65 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.0 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 24.0 FEET SOUTH OF A DRIVEWAY AND 7.25 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400001A AZ MK". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	1	39.62	130.0
MK # 2	TELEPHONE JUNCTION BOX	170	27.72	91.0
MK # 3	NBC IN CROSS TIE	274	31.48	103.3

AZ Mark Station	93400001
Geodetic Azimuth	0 31 02
Grid Azimuth	0 26 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400002	1/11/1993	AHTD	LINCOLN	425	001930, R20109

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	543,276.1121
Easting (M)	414,596.7370
Elevation (M)*	
Northing (SFT)	1,782,398.3778
Easting (SFT)	1,360,222.7946
Elevation (SFT)*	

Convergence Angle	0	5	18.2214033
Scale Factor			0.999919346
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	57	30.1115736
Longitude	91	50	31.4334492
Ellipsoid Height (M):	49.317		
Geoid Height (M):	-25.750		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212 IN STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 1.851 KM (1.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.39 METERS SOUTH OF THE ENTRANCE TO THE ARKANSAS HIGHWAY AND TRANSPORATION DEPARTMENT AREA LOT, 17.373 METERS EAST OF THE CENTER OF HIGHWAY 425 AND 12.10 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400002 1993. THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF MANHOLE	190	10.66	35.0
MK # 2	NBC IN COMBINATION POLE	239	46.62	152.9
MK # 3	NBC IN POWER POLE	354	13.41	44.0

AZ Mark Station	400017
Geodetic Azimuth	198 06 47
Grid Azimuth	198 01 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400002A	1/11/1993	AHTD	LINCOLN	425	R20109

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	543,531.3011	
Easting (M)	414,621.7940	
Elevation (M)*	79.138	
Northing (SFT)	1,783,235.6104	
Easting (SFT)	1,360,305.0025	
Elevation (SFT)*	259.639	

Convergence Angle	0	5	18.7762648
Scale Factor	0.999919294		
Elevation Adjust. Factor	0.9999875808		
Combined Adjust. Factor	0.9999068758		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	57	38.3932224
Longitude	91	50	30.4420776
Ellipsoid Height (M):	52.459		
Geoid Height (M):	-26.580		

Location Description

FROM THE JCT. OF HWY. 425 AND HWY. 212 IN STAR CITY, GO NORTH ON HWY. 425 FOR 1.30 MILES TO THE STATION ON THE LEFT. THE STATION IS 49.76 FEET WEST OF THE CENTERLINE OF HWY. 425, 108.38 FEET NORTHWEST OF THE ENTRANCE TO A CHURCH AND 3.0 FEET EAST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	93	35.43	116.2
MK # 2	NBC IN COMBINATION POLE	167	51.26	168.2
MK # 3	NBC IN COMBINATION POLE	5	58.74	192.7

AZ Mark Station	93400002
Geodetic Azimuth	185 39 21.95146
Grid Azimuth	185 34 03.17573

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	TARRY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400003A	4/19/1999	AHTD	LINCOLN	425	R20113

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	549,886.1450	
Easting (M)	417,139.2360	
Elevation (M)*	57.137	
Northing (SFT)	1,804,084.7941	
Easting (SFT)	1,368,564.3101	
Elevation (SFT)*	187.457	

Convergence Angle	0	6	13.9111810
Scale Factor	0.999918511		
Elevation Adjust. Factor	0.9999910334		
Combined Adjust. Factor	0.9999095452		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	1	4.5200964
Longitude	91	48	51.9324588
Ellipsoid Height (M):			
Geoid Height (M):	-25.752		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212, IN STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 9.22 KM (5.73 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.60 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400003A AZ. MK." SET ON TOP OF AN IRON ROD AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	1	62.58	205.3
MK # 2	TELEPHONE JUNCTION BOX	174	14.88	48.8
MK # 3	NBC IN COMBINATION POLE	224	47.93	157.2

AZ Mark Station	400008
Geodetic Azimuth	359 08 15.51118
Grid Azimuth	359 02 01.60002

Area Reference Monuments (used for Processing)

Ref Mon # 1	350013
Ref Mon # 2	93400002
Ref Mon # 3	DIST2

Comments

Elevations based on 3 wire from NGS point TARRY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400004	4/15/1993	AHTD	LINCOLN	425	001930, R20125, R20115

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	524,865.6892
Easting (M)	414,920.3980
Elevation (M)*	
Northing (SFT)	1,721,996.8487
Easting (SFT)	1,361,284.6724
Elevation (SFT)*	

Convergence Angle	0	5	24.6457641
Scale Factor			0.999927343
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	47	32.5249944
Longitude	91	50	19.9550364
Ellipsoid Height (M):	63.762		
Geoid Height (M):	-25.672		

Location Description

TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE LOCATED ABOUT 11.00 MILE NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 0.80 KM (0.05 MI) TO THE MT. ZION PRESBYTERIAN CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 66.0 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425, 72.69 FEET NORTHWEST OF THE WEST DOOR OF THE CHURCH, AND 2.00 WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400004". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN OAK TREE	13	30.60	100.4
MK # 2	NBC IN LIGHT POLE	83	52.81	173.3
MK # 3	NBC IN POWER POLE	176	43.07	141.3

AZ Mark Station	93400004A AZ MK
Geodetic Azimuth	351 01 46
Grid Azimuth	350 56 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400004A AZ MK	4/15/1993	AHTD	LINCOLN	425	001930, R20125

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	525,430.0601	
Easting (M)	414,830.3990	
Elevation (M)*		
Northing (SFT)	1,723,848.4555	
Easting (SFT)	1,360,989.4007	
Elevation (SFT)*		

Convergence Angle	0	5	22.7067340
Scale Factor	0.999926974		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	47	50.8482312
Longitude	91	50	23.4195036
Ellipsoid Height (M):	55.414		
Geoid Height (M):	-25.675		

Location Description

TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE LOCATED ABOUT 11.00 MILES NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR .627 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 59.00 FEET EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 2.00 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "93400004A AZ MK". THIS STATION WAS UPDATED TO "HARN" IN FEBRUARY 2002.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN PINE TREE	206	46.74	153.4
MK # 2	NBC IN DOUBLE GUM	237	36.97	121.3
MK # 3	NBC IN DOUBLE GUM	254	37.04	121.5

AZ Mark Station	93400004
Geodetic Azimuth	171 01 45
Grid Azimuth	170 56 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400005	7/19/1995	AHTD	LINCOLN	65	R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	557,848.1610	
Easting (M)	425,984.5730	
Elevation (M)*	56.312	
Northing (SFT)	1,830,206.8415	
Easting (SFT)	1,397,584.3866	
Elevation (SFT)*	184.750	

Convergence Angle	0	9	27.3588596
Scale Factor	0.999918930		
Elevation Adjust. Factor	0.9999911629		
Combined Adjust. Factor	0.9999100936		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	5	22.2913896
Longitude	91	43	6.2992668
Ellipsoid Height (M):	29.606		
Geoid Height (M):	-26.705		

Location Description

FROM THE POST OFFICE IN THE SMALL VILLAGE OF GRADY, GO NORTH ON HWY. 65 FOR 2.173 KM (1.35 MILES) TO THE STATION ON THE LEFT, IN A GRAVEL PULL-OFF. THE STATION IS 16.0 METERS SOUTH OF THE CENTER OF HWY. 65, 8.0 METERS NORTH OF THE NORTHERNMOST RAIL OF THE MISSOURI PACIFIC RAILROAD AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "400005 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" METAL PIPE	346	6.60	21.7
MK # 2	24" METAL PIPE	50	5.20	17.1
MK # 3	NONE			

AZ Mark Station	400005A
Geodetic Azimuth	121 14 11.68036
Grid Azimuth	121 04 44.32680

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "Y 289 1984".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400005A	7/19/1995	AHTD	LINCOLN	65	R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	557,639.9559	
Easting (M)	426,330.0040	
Elevation (M)*	56.537	
Northing (SFT)	1,829,523.7553	
Easting (SFT)	1,398,717.6881	
Elevation (SFT)*	185.488	

Convergence Angle	0	9	34.8884460
Scale Factor	0.999918899		
Elevation Adjust. Factor	0.9999911276		
Combined Adjust. Factor	0.9999100273		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	5	15.5025996
Longitude	91	42	52.8461460
Ellipsoid Height (M):	29.830		
Geoid Height (M):	-26.707		

Location Description

FROM THE POST OFFICE IN THE SMALL VILLAGE OF GRADY, GO NORTH ON HWY. 65 FOR 1.77 KM (1.10 MILES) TO THE STATION ON THE LEFT IN A GRAVEL PULL-OFF. THE STATION IS 15.60 METERS SOUTH OF THE CENTER OF HWY. 65, 9.5 METERS NORTH OF THE NORTHERNMOST RAIL OF THE MISSOURI PACIFIC RAILROAD AND 1.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "400005A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	400005
Geodetic Azimuth	301 14 19.22049
Grid Azimuth	301 04 44.32680

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "Y 289 1984".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400006	2/24/1999	AHTD	LINCOLN	425	001930, R20125

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	531,463.6152
Easting (M)	414,075.1650
Elevation (M)*	
Northing (SFT)	1,743,643.5442
Easting (SFT)	1,358,511.6038
Elevation (SFT)*	
Convergence Angle	0 5 6.4680749
Scale Factor	0.999923518
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 51 6.7254192
Longitude	91 50 52.4331348
Ellipsoid Height (M):	62.358
Geoid Height (M):	-25.710

Location Description

TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE, LOCATED ABOUT 12.87 KM (8.00 MI) NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 6.97 KM (4.33 MI) TO THE STATION ON THE RIGHT. THE STATION IS 59.80 METERS SOUTH OF A GRAVEL DRIVEWAY, 13.453 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400006 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PP	3	19.82	65.0
MK # 2	SWEET GUM TREE	32	19.08	62.6
MK # 3				

AZ Mark Station	400006A
Geodetic Azimuth	355 53 59
Grid Azimuth	355 48 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400006A	2/24/1999	AHTD	LINCOLN	425	001930, R20125

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	532,220.7261
Easting (M)	414,019.7600
Elevation (M)*	
Northing (SFT)	1,746,127.4989
Easting (SFT)	1,358,329.8293
Elevation (SFT)*	

Convergence Angle	0	5	5.2861062
Scale Factor			0.999923147
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	51	31.3026516
Longitude	91	50	54.5449596
Ellipsoid Height (M):	89.559		
Geoid Height (M):	-25.714		

Location Description

TO REACH THE STATION FROM THE DREW-LINCOLN COUNTY LINE, LOCATED ABOUT 12.87 KM (8.00 MI) NORTH OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 7.72 KM (4.80 MI) TO THE STATION ON THE LEFT SET ON TOP OF A HILL NEXT TO A CEMETERY. THE STATION IS 15.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 425, 3.82 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK LEADING TO A CEMETERY AND 1.00 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "400006A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN GATE POST	354	3.90	12.8
MK # 2	WOODEN FENCE LINE POST	335	1.75	5.7
MK # 3				

AZ Mark Station	400006
Geodetic Azimuth	175 53 58
Grid Azimuth	175 48 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400007	4/19/1999	AHTD	LINCOLN	425	R20113

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	556,267.6270	
Easting (M)	415,486.2890	
Elevation (M)*	57.417	
Northing (SFT)	1,825,021.3729	
Easting (SFT)	1,363,141.2665	
Elevation (SFT)*	188.376	

Convergence Angle	0	5	38.0785891
Scale Factor			0.999918725
Elevation Adjust. Factor			0.9999909895
Combined Adjust. Factor			0.9999097152

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	4	31.7394840	
Longitude	91	49	55.9545924	
Ellipsoid Height (M):				
Geoid Height (M):	-25.726			

Location Description

THE STATION IS LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF YORKTOWN AT THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 199. THE STATION IS 15.25 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 425, 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 199 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400007 1999" SET ON TOP OF AN ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST END OF RCP	284	11.00	36.1
MK # 2				
MK # 3				

AZ Mark Station	400007A
Geodetic Azimuth	122 07 09.42731
Grid Azimuth	122 01 31.35294

Area Reference Monuments (used for Processing)

Ref Mon # 1	350013
Ref Mon # 2	93400002
Ref Mon # 3	DIST2

Comments

Elevations based on 3 wire from NGS point TARRY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400007A	4/19/1999	AHTD	LINCOLN	425	R20113

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	556,035.7030	
Easting (M)	415,857.0810	
Elevation (M)*	58.051	
Northing (SFT)	1,824,260.4689	
Easting (SFT)	1,364,357.7732	
Elevation (SFT)*	190.456	

Convergence Angle	0	5	46.1647738
Scale Factor			0.999918700
Elevation Adjust. Factor			0.9999908900
Combined Adjust. Factor			0.9999095907

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	4	24.1918896	
Longitude	91	49	41.5069968	
Ellipsoid Height (M):				
Geoid Height (M):	-25.728			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 199, LOCATED ABOUT 8.05 KM (5.00 MI) NORTH OF YORKTOWN, GO SOUTHEAST ON U.S. HIGHWAY 425 FOR 0.44 KM (0.27 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.75 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 425 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400007A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN POST	350	2.48	8.1
MK # 2				
MK # 3				

AZ Mark Station	400007
Geodetic Azimuth	302 07 17.52185
Grid Azimuth	302 01 31.35294

Area Reference Monuments (used for Processing)

Ref Mon # 1	350013
Ref Mon # 2	93400002
Ref Mon # 3	DIST2

Comments

Elevations based on 3 wire from NGS point TARRY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400008	4/19/1999	AHTD	LINCOLN	425	R20113

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	550,319.6881
Easting (M)	417,131.9240
Elevation (M)*	56.506
Northing (SFT)	1,805,507.1767
Easting (SFT)	1,368,540.3207
Elevation (SFT)*	185.387

Convergence Angle	0	6	13.7688010
Scale Factor			0.999918494
Elevation Adjust. Factor			0.9999911324
Combined Adjust. Factor			0.9999096272

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	1	18.5922984
Longitude	91	48	52.1868492
Ellipsoid Height (M):			
Geoid Height (M):	-25.751		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212 IN, STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 9.66 KM (6.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425, 14.50 METERS SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE AND 0.90 METERS WEST OF A WTINESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "400008 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	155	3.80	12.5
MK # 2	NORTHWEST CORNER OF A BRICK HOUSE	153	33.15	108.8
MK # 3	NBC IN COMBINATION POLE	214	60.59	198.8

AZ Mark Station	93400003A
Geodetic Azimuth	179 08 15.36885
Grid Azimuth	179 02 01.60002

Area Reference Monuments (used for Processing)

Ref Mon # 1	350013
Ref Mon # 2	93400002
Ref Mon # 3	DIST2

Comments

Elevations based on 3 wire from NGS point TARRY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400009	1/15/2002	AHTD	LINCOLN	N/A	001930

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	525,282.4791	
Easting (M)	409,312.1480	
Elevation (M)*		
Northing (SFT)	1,723,364.2668	
Easting (SFT)	1,342,884.9389	
Elevation (SFT)*		

Convergence Angle	0	3	22.6275598
Scale Factor	0.999927065		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	47	46.2860592	
Longitude	91	53	57.9651036	
Ellipsoid Height (M):	47.000			
Geoid Height (M):	-25.670			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 15.45 KM (9.60 MI) TO CORNERSVILLE AND LINCOLN COUNTY ROAD 20 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 20, AND GO SOUTHEAST FOR 6.808 KM (4.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.50 METERS EAST OF COUNTY ROAD 20 AND 0.64 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400009 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	400009A
Geodetic Azimuth	148 44 49
Grid Azimuth	148 41 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400009A	1/15/2002	AHTD	LINCOLN	N/A	001930

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	524,842.3322	
Easting (M)	409,579.8610	
Elevation (M)*		
Northing (SFT)	1,721,920.2182	
Easting (SFT)	1,343,763.2606	
Elevation (SFT)*		

Convergence Angle	0	3	28.4431750
Scale Factor	0.999927354		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	47	31.9908660	
Longitude	91	53	47.5743372	
Ellipsoid Height (M):	38.592			
Geoid Height (M):	-25.668			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 15.45 KM (9.60 MI) TO CORNERSVILLE AND LINCOLN COUNTY ROAD 20 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 20, AND GO SOUTHEAST FOR 7.323 KM (4.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.10 METERS NORTHEAST OF COUNTY ROAD 20 AND 0.95 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400009A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	400009
Geodetic Azimuth	328 44 54
Grid Azimuth	328 41 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400010	1/15/2002	AHTD	LINCOLN	N/A	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	528,271.1271
Easting (M)	409,663.8480
Elevation (M)*	
Northing (SFT)	1,733,169.5228
Easting (SFT)	1,344,038.8080
Elevation (SFT)*	
Convergence Angle	0 3 30.3466846
Scale Factor	0.999925231
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	49	23.2816980
Longitude	91	53	44.1733344
Ellipsoid Height (M):	44.129		
Geoid Height (M):	-25.686		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 14.097 KM (8.76 MI) TO LINCOLN COUNTY ROAD 26 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 26, AND GO SOUTHEAST FOR 4.249 KM (2.64 MI) TO THE STATION ON THE LEFT. THE STATION IS LOCATED AT LACO FARM, 25.60 METERS WEST OF THE GRAVEL FARM ENTRANCE, 8.90 METERS NORTH OF COUNTY ROAD 26, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 400010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	206	14.20	46.6
MK # 2	TELEPHONE JUNCTION BOX	299	23.10	75.8
MK # 3				

AZ Mark Station	400010A
Geodetic Azimuth	297 27 14
Grid Azimuth	297 23 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400010A	1/15/2002	AHTD	LINCOLN	N/A	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	528,405.6251
Easting (M)	409,404.3270
Elevation (M)*	
Northing (SFT)	1,733,610.7883
Easting (SFT)	1,343,187.3628
Elevation (SFT)*	

Convergence Angle	0	3	24.7007692
Scale Factor			0.999925154
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	49	27.6557736
Longitude	91	53	54.2608980
Ellipsoid Height (M):	39.571		
Geoid Height (M):	-25.687		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED ON THE SOUTH SIDE OF STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 14.097 KM (8.76 MI) TO LINCOLN COUNTY ROAD 26 ON THE LEFT. TURN LEFT (SOUTH) ON LINCOLN COUNTY ROAD 26, AND GO SOUTHEAST FOR 3.943 KM (2.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.40 METERS NORTH OF THE CENTER OF COUNTY ROAD 26 AND 0.63 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400010A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	110	21.65	71.0
MK # 2				
MK # 3				

AZ Mark Station	400010
Geodetic Azimuth	117 27 09
Grid Azimuth	117 23 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400011	1/15/2002	AHTD	LINCOLN	11	001930

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	531,838.7661	
Easting (M)	409,382.3580	
Elevation (M)*		
Northing (SFT)	1,744,874.3518	
Easting (SFT)	1,343,115.2862	
Elevation (SFT)*		

Convergence Angle	0	3	24.2965930
Scale Factor	0.999923330		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	51	19.0907964
Longitude	91	53	54.9830400
Ellipsoid Height (M):	58.010		
Geoid Height (M):	-25.706		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 11.345 KM (7.05 MI) TO THE STATION ON THE LEFT. THE STATION IS LOCATED AT THE NEWTON CHAPEL CEMETERY, 16.30 METERS WEST OF THE CENTER OF THE PAVED ENTRANCE TO THE CEMETERY, 12.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 11, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400011 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	159	12.85	42.2
MK # 2	CHAIN LINK FENCE CORNER POST CEMETE RY FENCE	338	19.15	62.8
MK # 3				

AZ Mark Station	400011A
Geodetic Azimuth	331 22 36
Grid Azimuth	331 19 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400011A	1/15/2002	AHTD	LINCOLN	11	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	532,032.6851
Easting (M)	409,276.2780
Elevation (M)*	
Northing (SFT)	1,745,510.5677
Easting (SFT)	1,342,767.2554
Elevation (SFT)*	

Convergence Angle	0	3	21.9908859
Scale Factor			0.999923235
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	51	25.3884816
Longitude	91	53	59.1026496
Ellipsoid Height (M):	56.419		
Geoid Height (M):	-25.707		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 11.152 KM (6.93 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 11, 7.60 METERS SOUTHEAST OF A GRAVEL DRIVE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400011A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CORRIGATED METAL PIPE	306	10.86	35.6
MK # 2	SOUTH END CORRIGATED METAL PIPE	242	3.60	11.8
MK # 3				

AZ Mark Station	400011
Geodetic Azimuth	151 22 33
Grid Azimuth	151 19 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400012	1/15/2002	AHTD	LINCOLN	11	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	536,163.4761
Easting (M)	410,189.2670
Elevation (M)*	
Northing (SFT)	1,759,063.0045
Easting (SFT)	1,345,762.6201
Elevation (SFT)*	

Convergence Angle	0	3	41.9679957
Scale Factor	0.999921445		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	53	39.4364256
Longitude	91	53	23.4095244
Ellipsoid Height (M):	62.872		
Geoid Height (M):	-25.726		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 6.324 KM (3.93 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.20 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 9.60 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 11, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400012 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER BLUE METAL BUILDI NG	101	14.50	47.6
MK # 2				
MK # 3				

AZ Mark Station	400012A
Geodetic Azimuth	43 54 14
Grid Azimuth	43 50 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400012A	1/15/2002	AHTD	LINCOLN	11	001930,020355

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	537,025.6111	
Easting (M)	411,017.2450	
Elevation (M)*		
Northing (SFT)	1,761,891.5258	
Easting (SFT)	1,348,479.0780	
Elevation (SFT)*		

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	54	7.3896768
Longitude	91	52	51.1436352
Ellipsoid Height (M):	69.484		
Geoid Height (M):	-25.729		

Convergence Angle	0	4	0.0269134
Scale Factor	0.999921124		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 11, LOCATED IN STAR CITY, GO SOUTHWEST ON STATE HIGHWAY 11 FOR 5.149 KM (3.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.25 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 11 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400012A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	45	9.45	31.0
MK # 2				
MK # 3				

AZ Mark Station	400012
Geodetic Azimuth	223 54 32
Grid Azimuth	223 50 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400013	1/15/2002	AHTD	LINCOLN	114	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	540,067.1721
Easting (M)	409,686.4710
Elevation (M)*	
Northing (SFT)	1,771,870.3805
Easting (SFT)	1,344,113.0303
Elevation (SFT)*	
Convergence Angle	0 3 31.1018822
Scale Factor	0.999920138
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 55 46.1602920
Longitude	91 53 42.8240220
Ellipsoid Height (M):	55.157
Geoid Height (M):	-25.735

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 114 FOR 4.522 KM (2.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.15 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 114 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400013 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST END CONCRETE HEADWALL	235	10.56	34.6
MK # 2	POWER POLE	151	11.50	37.7
MK # 3				

AZ Mark Station	400013A
Geodetic Azimuth	241 54 52
Grid Azimuth	241 51 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400013A	1/15/2002	AHTD	LINCOLN	114	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	539,870.0301
Easting (M)	409,317.9430
Elevation (M)*	
Northing (SFT)	1,771,223.5904
Easting (SFT)	1,342,903.9513
Elevation (SFT)*	
Convergence Angle	0 3 23.0661523
Scale Factor	0.999920195
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	55	39.7734492
Longitude	91	53	57.1814700
Ellipsoid Height (M):	57.658		
Geoid Height (M):	-25.734		

Location Description

TO REACH THE STATION FOM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 114 FOR 4.972 KM (3.08 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.23 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 114 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400013A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	240	19.40	63.6
MK # 2				
MK # 3				

AZ Mark Station	400013
Geodetic Azimuth	61 54 44
Grid Azimuth	61 51 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400014	1/16/2002	AHTD	LINCOLN	212	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	543,390.3581	
Easting (M)	407,795.4910	
Elevation (M)*		
Northing (SFT)	1,782,773.1999	
Easting (SFT)	1,337,909.0401	
Elevation (SFT)*		

Convergence Angle	0	2	49.9505481
Scale Factor	0.999919321		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	57	34.0809948	
Longitude	91	54	56.3491584	
Ellipsoid Height (M):	58.369			
Geoid Height (M):	-25.731			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 6.566 KM (4.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.70 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 212, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400014 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	400014A
Geodetic Azimuth	266 23 56
Grid Azimuth	266 21 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400014A	1/16/2002	AHTD	LINCOLN	212	001930,020355

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	543,347.8750	
Easting (M)	407,129.2140	
Elevation (M)*		
Northing (SFT)	1,782,633.8199	
Easting (SFT)	1,335,723.0963	
Elevation (SFT)*		

Convergence Angle	0	2	35.4242603
Scale Factor	0.999919329		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	57	32.7191400
Longitude	91	55	22.3032936
Ellipsoid Height (M):	52.638		
Geoid Height (M):	-25.731		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 7.242 KM (4.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.65 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 15.24 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 212, AND 0.54 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400014A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	295	5.90	19.4
MK # 2	METAL CORNER POST	95	7.43	24.4
MK # 3	CORRIGATED METAL PIPE	55	8.57	28.1

AZ Mark Station	400014
Geodetic Azimuth	86 23 41
Grid Azimuth	86 21 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400015	1/16/2002	AHTD	LINCOLN	N/A	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	549,353.9370	
Easting (M)	404,897.4300	
Elevation (M)*		
Northing (SFT)	1,802,338.7083	
Easting (SFT)	1,328,400.9849	
Elevation (SFT)*		

Convergence Angle	0	1	46.8368850
Scale Factor			0.999918537
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	0	47.7089100
Longitude	91	56	49.1144136
Ellipsoid Height (M):	51.570		
Geoid Height (M):	-25.723		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 3.363 KM (2.09 MI) TO A PAVED ROAD TO THE RIGHT (LINCOLN COUNTY ROAD 12), TURN RIGHT (NORTH) ON COUNTY ROAD 12 AND GO NORTH 7.966 KM (4.95 MI) TO LINCOLN COUNTY ROAD 72 (A PAVED ROAD ON THE LEFT), TURN LEFT, (WEST) ON COUNTY ROAD 72 AND GO 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. CONTINUE ON WEST ON COUNTY ROAD FOR 1.65 MI AND IT INTERSECTS STATE HIGHWAY 54 IN CLEVELAND COUNTY. THE STATION IS 11.20 METERS EAST OF A GRAVEL ROAD, 5.85 METERS SOUTH OF THE CENTER OF COUNTY ROAD 72, AND 0.69 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400015 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER POST	253	4.20	13.8
MK # 2	WOODEN CORNER POST	235	7.00	23.0
MK # 3				

AZ Mark Station	400015A
Geodetic Azimuth	271 46 29
Grid Azimuth	271 44 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400015A	1/16/2002	AHTD	LINCOLN	N/A	001930

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	549,364.0960	
Easting (M)	404,563.9880	
Elevation (M)*		
Northing (SFT)	1,802,372.0383	
Easting (SFT)	1,327,307.0173	
Elevation (SFT)*		

Convergence Angle	0	1	39.5629937
Scale Factor			0.999918537
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	0	48.0440628
Longitude	91	57	2.1106836
Ellipsoid Height (M):	49.467		
Geoid Height (M):	-25.723		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 AND STATE HIGHWAY 212, LOCATED ON THE WEST SIDE OF STAR CITY, GO WEST ON STATE HIGHWAY 212 FOR 3.363 KM (2.09 MI) TO A PAVED ROAD TO THE RIGHT (LINCOLN COUNTY ROAD 12), TURN RIGHT (NORTH) ON COUNTY ROAD 12 AND GO NORTH FOR 7.966 KM (4.95 MI) TO LINCOLN COUNTY ROAD 72, (A PAVED ROAD TO THE LEFT), TURN LEFT (WEST) ON COUNTY ROAD 72 AND GO 2.09 KM (1.30 MI) TO THE STATION ON THE RIGHT. CONTINUE ON WEST ON COUNTY ROAD FOR 1.45 MI AND IT INTERSECTS WITH STATE HIGHWAY 54 IN CLEVELAND COUNTY. THE STATION IS 7.70 METERS NORTH OF THE CENTER OF COUNTY ROAD 72 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400015A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	296	1.65	5.4
MK # 2	END OF METAL PIPE UNDER DRIVEWAY	255	11.20	36.7
MK # 3				

AZ Mark Station	400015
Geodetic Azimuth	91 46 22
Grid Azimuth	91 44 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400016	1/16/2002	AHTD	LINCOLN	N/A	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	554,048.7800	
Easting (M)	404,349.2910	
Elevation (M)*		
Northing (SFT)	1,817,741.7057	
Easting (SFT)	1,326,602.6322	
Elevation (SFT)*		

Convergence Angle	0	1	34.9264316
Scale Factor			0.999918538
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	3	20.1008808
Longitude	91	57	10.3948344
Ellipsoid Height (M):	48.597		
Geoid Height (M):	-25.727		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 0.322 KM (0.20 MI) TO OLD STAR CITY ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON OLD STAR CITY ROAD AND GO SOUTH ON OLD STAR CITY ROAD FOR 6.148 KM (3.82 MI) TO THE STATION ON THE RIGHT, SET IN A GAS PIPELINE RIGHT OF WAY. THE STATION IS 9.60 METERS SOUTH OF THE CENTER OF OLD STAR CITY ROAD, 8.00 METERS WEST OF THE CENTER OF THE ENTRANCE TO MISSISSIPPI RIVER TRANSMISSION CORP. PIPE LINE RIGHT OF WAY, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400016 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END GATE POST	165	7.70	25.3
MK # 2	WOODEN POST FOR PIPE LINE MARKER	323	5.75	18.9
MK # 3				

AZ Mark Station	400016A
Geodetic Azimuth	2 06 18
Grid Azimuth	2 04 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400016A	1/16/2002	AHTD	LINCOLN	N/A	001930

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	554,659.8190	
Easting (M)	404,371.4680	
Elevation (M)*		
Northing (SFT)	1,819,746.4228	
Easting (SFT)	1,326,675.3913	
Elevation (SFT)*		

Convergence Angle	0	1	35.4166293
Scale Factor			0.999918577
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	3	39.9333204
Longitude	91	57	9.5189976
Ellipsoid Height (M):	48.312		
Geoid Height (M):	-25.729		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 530 AND U.S. HIGHWAY 63 LOCATED ON THE SOUTH SIDE OF PINE BLUFF, GO SOUTH ON U.S. HIGHWAY 63 FOR 8.288 KM (5.15 MI) TO PINEBERGEN ROAD ON THE LEFT. TURN LEFT (EAST) ON PINEBERGEN ROAD AND GO EAST ON PINEBERGEN ROAD FOR 0.322 KM (0.20 MI) TO OLD STAR CITY ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON OLD STAR CITY ROAD AND GO SOUTH ON OLD STAR CITY ROAD FOR 6.148 KM (3.82 MI) TO THE GAS PIPE LINE RIGHT OF WAY AND POINT NUMBER 400016 ON THE RIGHT. STATION 400016A IS ON THE LEFT THROUGH A LOCKED GATE ON PIPE LINE RIGHT OF WAY. TURN LEFT (NORTH) AND GO NORTH ABOUT 0.30 MI TO A METAL TOWER DEER STAND AND THE STATION. THE STATION IS 4.50 METERS WEST OF THE CENTER OF A DIRT TRACK ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. STATION IS ON THE RIGHT OF WAY OF THE MISSISSIPPE RIVER TRANSMISSION CORP. PIPE LINE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER METAL DEER TOWE R STAND	57	10.00	32.8
MK # 2				
MK # 3				

AZ Mark Station	400016
Geodetic Azimuth	182 06 18
Grid Azimuth	182 04 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400017	1/19/2002	AHTD	LINCOLN	425	001930

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	542,897.0291
Easting (M)	414,473.3850
Elevation (M)*	
Northing (SFT)	1,781,154.6696
Easting (SFT)	1,359,818.0973
Elevation (SFT)*	
Convergence Angle	0 5 15.5195856
Scale Factor	0.999919426
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 57 17.8134732
Longitude	91 50 36.2607900
Ellipsoid Height (M):	45.054
Geoid Height (M):	-25.750

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 212 LOCATED IN STAR CITY, GO NORTH ON U.S. HIGHWAY 425 FOR 1.368 KM (0.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.90 METERS EAST OF THE CENTER OF U.S. HIGHWAY 425 AND 1.60 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "400017 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	31	5.35	17.6
MK # 2	SOUTH END CONCRETE BRIDGE RAIL	140	2.95	9.7
MK # 3				

AZ Mark Station	93400002
Geodetic Azimuth	18 06 44
Grid Azimuth	18 01 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	K 124
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400018	10/26/2004	AHTD	LINCOLN	54	020419

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	537,074.9481
Easting (M)	439,148.9440
Elevation (M)*	
Northing (SFT)	1,762,053.3922
Easting (SFT)	1,440,774.4938
Elevation (SFT)*	
Convergence Angle	0 14 12.9173917
Scale Factor	0.999921133
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	54	6.5719116
Longitude	91	34	36.0915060
Ellipsoid Height (M):	25.367		
Geoid Height (M):	-25.867		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 54 iAND STATE HIGHWAY 83, WEST OF DUMAS, GO WEST ON HIGHWAY 54 1.2 iMILES TO THE STATION ON THE RIGHT, NORTH 11.50 METERS OF THE iCENTERLINE OF THE ROAD AND SOUTH 0.50 METERS OF A WITNESS POST. iTHE STATION MARK IS A STANDARD 64mm CAP STAMPED "400018 2004" ON iTOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	170	23.45	76.9
MK # 2	POWER POLE	89	16.85	55.3
MK # 3				

AZ Mark Station	400018A
Geodetic Azimuth	274 07 55
Grid Azimuth	273 53 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	CSAL
Ref Mon # 3	AHTD LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400018A	10/26/2004	AHTD	LINCOLN	54	020419

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	537,109.8041
Easting (M)	438,636.9920
Elevation (M)*	
Northing (SFT)	1,762,167.7490
Easting (SFT)	1,439,094.8646
Elevation (SFT)*	
Convergence Angle	0 14 1.7669878
Scale Factor	0.999921120
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	54	7.7715288
Longitude	91	34	56.0139456
Ellipsoid Height (M):	24.350		
Geoid Height (M):	-25.863		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 54 iAND STATE HIGHWAY 83, WEST OF DUMAS, GO WEST ON HIGHWAY 54 1.5 iMILES TO THE STATION ON THE LEFT, SOUTH 8.70 METERS OF THE iCENTERLINE OF THE ROAD AND NORTH 0.50 METERS OF A WITNESS POST. iTHE STATION MARK IS A STANDARD 64mm CAP STAMPED "400018A 2004" iON TOP OF A 1.22 METER IRON ROD DRIVEN SUBSURFACE WITH THE iGROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHOE RISER	270	38.85	127.5
MK # 2				
MK # 3				

AZ Mark Station	400018
Geodetic Azimuth	94 07 44
Grid Azimuth	93 53 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	CSAL
Ref Mon # 3	AHTD LROC

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400019	3/17/2010	AHTD	LINCOLN	11	020506

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	543,003.0421	
Easting (M)	416,632.2360	
Elevation (M)*	66.476	
Northing (SFT)	1,781,502.4806	
Easting (SFT)	1,366,900.9276	
Elevation (SFT)*	218.098	

Convergence Angle	0	6	2.5864793
Scale Factor			0.999919404
Elevation Adjust. Factor			0.9999895678
Combined Adjust. Factor			0.9999089726

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	57	21.1392540
Longitude	91	49	12.1663164
Ellipsoid Height (M):	40.718		
Geoid Height (M):	-25.760		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11, 14, AND 425, IN STAR CITY, GO NORTH ON STATE HIGHWAY 11 FOR 1.70 MILES TO THE STATION MARK ON THE RIGHT, 72 FEET NORTHEAST OF THE CENTERLINE OF A GRAVEL DRIVE, SOUTHEAST 17.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 48.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400019 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	79	10.36	34.0
MK # 2	FENCE CORNER	211	16.92	55.5
MK # 3				

AZ Mark Station	400019A
Geodetic Azimuth	234 48 04
Grid Azimuth	234 42 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	C SAL
Ref Mon # 2	MSB6
Ref Mon # 3	ARLR

Comments

DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 3/2010 FROM P 77.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400019A	3/17/2010	AHTD	LINCOLN	11	0020506

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	542,702.9251	
Easting (M)	416,208.3570	
Elevation (M)*	64.185	
Northing (SFT)	1,780,517.8468	
Easting (SFT)	1,365,510.2513	
Elevation (SFT)*	210.579	

Convergence Angle	0	5	53.3346324
Scale Factor			0.999919470
Elevation Adjust. Factor			0.9999899274
Combined Adjust. Factor			0.9999093983

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	57	11.4219540
Longitude	91	49	28.6966020
Ellipsoid Height (M):	38.426		
Geoid Height (M):	-25.758		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11, 14, AND 425, IN STAR CITY, GO NORTH ON STATE HIGHWAY 11 FOR 1.40 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 19.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 18.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400019A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CHAINLINK FENCE CORNER	33	27.74	91.0
MK # 2	COMBINATION POLE	142	5.61	18.4
MK # 3				

AZ Mark Station	400019
Geodetic Azimuth	54 47 55
Grid Azimuth	54 42 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	CSAL
Ref Mon # 3	MSB6

Comments

DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 ON 3/2010 FROM P 77.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400020	2/12/2012	AHTD	Lincoln	212	020542

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	546,982.7532	
Easting (M)	442,970.4190	
Elevation (M)*	50.179	0.0011
Northing (SFT)	1,794,559.2495	
Easting (SFT)	1,453,312.1163	
Elevation (SFT)*	164.629	

Convergence Angle	0	15	37.1534825
Scale Factor	0.999918755		
Elevation Adjust. Factor	0.9999921254		
Combined Adjust. Factor	0.9999108810		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	59	27.6183384
Longitude	91	32	5.5867848
Ellipsoid Height (M):	79.614		
Geoid Height (M):			

Location Description

Lat. 33.5928 Lon. 91.3206 Starting at the junction of highway 212 and 65. Go east on 212 for 1.4 miles to Duke lane. Turn left (north) on Duke lane and go 0.4 miles to the station on the right.The station is a standard 2" alum. cap on a 4 foot rebar. Stamped 400020-2012

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	east of duke lane	265	8.80	28.9
MK # 2	north east of a pp	230	3.00	9.8
MK # 3	south west of electric meter	40	4.60	15.1

AZ Mark Station	400020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation BASED ON NGS POINT 12 AR

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400020A	2/12/2012	AHTD	Lincoln	212	020542

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	546,183.1319	
Easting (M)	442,958.0180	
Elevation (M)*	48.997	0.0010
Northing (SFT)	1,791,935.8252	
Easting (SFT)	1,453,271.4307	
Elevation (SFT)*	160.749	

Convergence Angle	0	15	36.8038251
Scale Factor	0.999918858		
Elevation Adjust. Factor	0.9999923109		
Combined Adjust. Factor	0.9999111695		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:			
Latitude	33	59	1.6664640
Longitude	91	32	6.2115180
Ellipsoid Height (M):	75.729		
Geoid Height (M):			

Location Description

Lat. 33.5902 Lon. 91.3206 Starting at the junction of highway 65 and 212. Go east on 212 for 1.4 miles to the station on the right. The station is a standard 2" alum. Cap on a 4 foot and stamped 400020A-2012

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	south west of double cmp's	57	8.00	26.2
MK # 2	west of pp with guy	85	2.40	7.9
MK # 3	east of field entrance	270	2.75	9.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation BASED ON NGS POINT 12 AR

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400021	9/12/2016	AHTD	LINCOLN	11	020581

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	562,408.3974	0.0040
Easting (M)	428,841.9434	0.0040
Elevation (M)*		
Northing (SFT)	1,845,168.2171	
Easting (SFT)	1,406,958.9426	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	7	50.0339028	
Longitude	91	41	14.2858140	
Ellipsoid Height (M):	29.825	0.0090		
Geoid Height (M):	-26.051	0.0090		

Convergence Angle	0	10	30.0517459
Scale Factor	0.999919872		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11 AND STATE HIGHWAY 65, NORTH OF GRADY, GO NORTH ON STATE HIGHWAY 11 FOR 3.5 MILES TO THE MARK ON THE RIGHT, EAST 69' OF THE CENTER LINE OF THE HIGHWAY AND SOUTH 18.9' OF THE CENTER LINE OF A DIRT FARM ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400021 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	109	51.00	167.3
MK # 2	NORTH END 24" CMP	347	47.00	154.2
MK # 3				

AZ Mark Station	400021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB, 1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400021A	9/12/2016	AHTD	LINCOLN	11	020581

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	562,952.8973	0.0040
Easting (M)	428,851.4972	0.0040
Elevation (M)*		
Northing (SFT)	1,846,954.6306	
Easting (SFT)	1,406,990.2871	
Elevation (SFT)*		

Convergence Angle	0	10	30.2967944
Scale Factor	0.999920019		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	34	8	7.7057196
Longitude	91	41	13.8479856
Ellipsoid Height (M):	29.825	0.0090	
Geoid Height (M):	-26.056	0.0090	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 11 AND STATE HIGHWAY 65, NORTH OF GRADY, GO NORTH ON STATE HIGHWAY 11 FOR 3.8 MILES TO THE MARK ON THE RIGHT, 31.9 FEET EAST OF THE CENTERLINE OF THE HIGHWAY.THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400021A 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	13	30.70	100.7
MK # 2				
MK # 3				

AZ Mark Station	400021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB, 1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400022	9/13/2016	AHTD	LINCOLN	11	020583

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	536,755.1618	0.0020
Easting (M)	410,759.1288	0.0020
Elevation (M)*		

Northing (SFT)	1,761,004.2267	
Easting (SFT)	1,347,632.2417	
Elevation (SFT)*		

Convergence Angle	0	3	54.3967806
Scale Factor	0.999921223		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	33	53	58.6210200
Longitude	91	53	1.2030000
Ellipsoid Height (M):	66.172	0.0110	
Geoid Height (M):	-25.827	0.0110	

Location Description

FROM JCT OF US-425 & SR-11S IN STAR CITY, GO S ON SR-11 3.4 MI TO STA ON L JUST PAST THE OVERPASS. 36.8' SE OF SR-11 C/L. STA IS A 2 1/2" ALUM CAP STAMPED "400022 2016" SET BELLOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SW COR OF MTL BU	84	54.40	178.5
MK # 2	PP & TRANS	227	113.50	372.4
MK # 3	PP & TRANS & GY	56	135.50	444.6

AZ Mark Station	400022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP, ARLR
Ref Mon # 3	ARPB, 1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400022A	9/13/2016	AHTD	LINCOLN	11	020583

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	536,158.8644	0.0030
Easting (M)	410,186.8579	0.0020
Elevation (M)*		
Northing (SFT)	1,759,047.8743	
Easting (SFT)	1,345,754.7163	
Elevation (SFT)*		

Convergence Angle	0	3	41.9154051
Scale Factor	0.999921446		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	33	53	39.2868240
Longitude	91	53	23.5034880
Ellipsoid Height (M):	63.310	0.0110	
Geoid Height (M):	-25.826	0.0110	

Location Description

FROM JCT OF US-425 & SR-11S IN STAR CITY, GO S ON SR-11 3.9 MI TO STA ON L, JUST PAST A MTL BUILDING. 25.2' SE OF SR-11 C/L. STA IS A 2 1/2" ALUM CAP STAMPED "400022A 2016" SET BELLOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PP & GY	212	46.00	150.9
MK # 2	FE COR	166	50.30	165.0
MK # 3	FE COR & R/W	229	55.30	181.4

AZ Mark Station	400022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP, ARLR
Ref Mon # 3	ARPB, 1ULM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400023	9/26/2016	AHTD	LINCOLN	54	020614

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	534,543.9843	0.0020
Easting (M)	436,719.2001	0.0020
Elevation (M)*		

Northing (SFT)	1,753,749.7218	
Easting (SFT)	1,432,802.9090	
Elevation (SFT)*		

Convergence Angle	0	13	19.7685914
Scale Factor			0.999922125
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	52	44.7378672	
Longitude	91	36	11.0525292	
Ellipsoid Height (M):			25.199	0.0070
Geoid Height (M):			-25.900	0.0070

Location Description

THE STATION MARK IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 54 AND STATE HIGHWAY 293 SOUTH, WEST OF DUMAS, 50 FEET SOUTHEAST OF THE CENTERLINE OF HIGHWAY 54 AND 49.1 FEET NORTHEAST OF THE CENTERLINE OF HIGHWAY 293 SOUTH. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 400023" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	255	12.60	41.3
MK # 2				
MK # 3				

AZ Mark Station	400023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY, MSGN

Comments

STATIC GPS DERIVED ELEVATION BASED ON CONSTRAINTS ON CORS SITES ARCM, ARLR & ARWY IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
400023A	9/26/2016	AHTD	LINCOLN	54	020614

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	534,225.9074	0.0020
Easting (M)	436,258.6885	0.0020
Elevation (M)*		
Northing (SFT)	1,752,706.1645	
Easting (SFT)	1,431,292.0472	
Elevation (SFT)*		

Convergence Angle	0	13	9.7119162	
Scale Factor	0.999922260			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	52	34.4713044	
Longitude	91	36	29.0208024	
Ellipsoid Height (M):	25.800			0.0070
Geoid Height (M):	-25.895			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 54 AND STATE HIGHWAY 293 SOUTH, WEST OF DUMAS, GO WEST ON HIGHWAY 54 0.3 MILES TO THE MARK ON THE LEFT, 24.5 FEET SOUTHEAST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "400023A 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	150	13.00	42.7
MK # 2				
MK # 3				

AZ Mark Station	400023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY, MSGN

Comments

STATIC GPS DERIVED ELEVATION BASED ON CONSTRAINTS ON CORS SITES ARCM, ARLR & ARWY IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
40004A	4/15/1993	AHTD	LINCOLN	425	R20115

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	525,430.4491	
Easting (M)	414,830.5870	
Elevation (M)*	81.372	
Northing (SFT)	1,723,849.7318	
Easting (SFT)	1,360,990.0175	
Elevation (SFT)*	266.968	

Convergence Angle	0	5	22.7108384
Scale Factor	0.999926973		
Elevation Adjust. Factor	0.9999872302		
Combined Adjust. Factor	0.9999142042		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	47	50.8608492
Longitude	91	50	23.4121704
Ellipsoid Height (M):	54.955		
Geoid Height (M):	-26.538		

Location Description

THE STATION IS ON HWY. 425 0.39 MILES NORTH OF THE DREW AND LINCOLN COUNTY LINE, 59.0 FEET EAST OF THE CENTERLINE OF HWY. 425 AND 2.00 FEET WEST OF A WITNESS POST.ELEVATION (NGVD 29) = 81.467 meters

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 7" PINE	206	46.74	153.4
MK # 2	NBC IN DOUBLE 6" GUM	237	36.97	121.3
MK # 3	NBC IN DOUBLE 24" GUM	254	37.04	121.5

AZ Mark Station	93400004
Geodetic Azimuth	171 01 43.04308
Grid Azimuth	170 56 20.32624

Area Reference Monuments (used for Processing)

Ref Mon # 1	CELLPORT
Ref Mon # 2	DUMAS
Ref Mon # 3	TARRY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410001	1/28/1999	AHTD	LITTLE RIVER	32	30108, 030202

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	512,543.3501	
Easting (M)	198,402.9920	
Elevation (M)*	102.022	
Northing (SFT)	1,681,569.3078	
Easting (SFT)	650,927.1496	
Elevation (SFT)*	334.717	

Convergence Angle	-1	13	0.1030535
Scale Factor	0.999939457		
Elevation Adjust. Factor	0.9999839897		
Combined Adjust. Factor	0.9999234476		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	39	43.4582820
Longitude	94	10	25.9352112
Ellipsoid Height (M):	75.007		
Geoid Height (M):	-26.990		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO WEST ON STATE HIGHWAY 32 FOR 5.09 KM (3.16 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.35 METERS NORTH OF THE CENTER OF STATE HIGHWAY 32 AND 1.11 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	86	12.39	40.6
MK # 2	CROSS TIE FENCE POST	1	1.33	4.4
MK # 3	NONE			

AZ Mark Station	410001A
Geodetic Azimuth	271 46 25.01404
Grid Azimuth	272 59 25.16886

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303
Ref Mon # 2	HOPEPORT
Ref Mon # 3	NEW BOSTON MAG STA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410001A	1/28/1999	AHTD	LITTLE RIVER	32	30108, 030202

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	512,569.1531	
Easting (M)	197,909.0560	
Elevation (M)*	98.633	
Northing (SFT)	1,681,653.9631	
Easting (SFT)	649,306.6279	
Elevation (SFT)*	323.598	

Convergence Angle	-1	13	10.8435065
Scale Factor			0.999939441
Elevation Adjust. Factor			0.9999845215
Combined Adjust. Factor			0.9999239634

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	39	43.9547796
Longitude	94	10	45.1251912
Ellipsoid Height (M):	71.626		
Geoid Height (M):	-26.990		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO WEST ON STATE HIGHWAY 32 FOR 5.58 KM (3.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.77 METERS NORTH OF THE CENTER OF STATE HIGHWAY 32 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	177	22.77	74.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	410001
Geodetic Azimuth	91 46 14.377119
Grid Azimuth	92 59 25.168862

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303
Ref Mon # 2	HOPEPORT
Ref Mon # 3	NEW BOSTON MAG STA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410002	1/28/1998	AHTD	LITTLE RIVER	71	30108, 030202

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	511,205.0382	
Easting (M)	204,427.3500	
Elevation (M)*	99.270	
Northing (SFT)	1,677,178.5295	
Easting (SFT)	670,692.0641	
Elevation (SFT)*	325.688	

Convergence Angle	-1	10	48.6504214
Scale Factor	0.999940706		
Elevation Adjust. Factor	0.9999844215		
Combined Adjust. Factor	0.9999251285		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	39	4.1175072
Longitude	94	6	31.0686408
Ellipsoid Height (M):	72.288		
Geoid Height (M):	-26.982		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO SOUTH ON U.S. HIGHWAY 71 FOR 2.90 KM (1.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.34 METERS NORTHWEST OF THE CENTER OF A CONCRETE DRIVEWAY, 23.14 METERS SOUTHEAST OF THE CENTER OF A GRAVEL ENTRANCE TO LOCAL 1327, 10.89 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 71 AND 1.00 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST END OF CMP	143	29.36	96.3
MK # 2	TELEPHONE JUNCTION BOX	290	1.75	5.7
MK # 3	NONE			

AZ Mark Station	410002A
Geodetic Azimuth	140 41 26.26885
Grid Azimuth	141 52 14.88780

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303
Ref Mon # 2	HOPEPORT
Ref Mon # 3	NEW BOSTON MAG STA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410002A	1/28/1999	AHTD	LITTLE RIVER	71	30108, 030202

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	510,843.6941	
Easting (M)	204,710.9800	
Elevation (M)*	98.936	
Northing (SFT)	1,675,993.0197	
Easting (SFT)	671,622.6069	
Elevation (SFT)*	324.593	

Convergence Angle	-1	10	42.3291080
Scale Factor	0.999941079		
Elevation Adjust. Factor	0.9999844740		
Combined Adjust. Factor	0.9999255539		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	52.5806412
Longitude	94	6	19.7743428
Ellipsoid Height (M):	71.955		
Geoid Height (M):	-26.981		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, LOCATED IN ASHDOWN, GO SOUTH ON U.S. HIGHWAY 71 FOR 3.36 KM (2.09 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS NORTHEAST OF THE NORTHBOUND LANE OF U.S. HIGHWAY 71, 6.80 METERS NORTHWEST OF THE CENTER OF A CONCRETE ENTRANCE TO CRYSTAL COMPUTERS AND 1.07 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITHT THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	410002
Geodetic Azimuth	320 41 32.52714
Grid Azimuth	321 52 14.88780

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303
Ref Mon # 2	HOPEPORT
Ref Mon # 3	NEW BOSTON MAG STA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410003	1/28/1999	AHTD	LITTLE RIVER	32	030202

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	514,399.3652	
Easting (M)	205,551.5270	
Elevation (M)*	99.138	
Northing (SFT)	1,687,658.5840	
Easting (SFT)	674,380.3015	
Elevation (SFT)*	325.255	

Convergence Angle	-1	10	25.6569238
Scale Factor	0.999937470		
Elevation Adjust. Factor	0.9999844423		
Combined Adjust. Factor	0.9999219132		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	48.5293908
Longitude	94	5	49.9861320
Ellipsoid Height (M):	72.124		
Geoid Height (M):	-27.002		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 EAST, LOCATED IN ASHDOWN, GO EAST ON STATE HIGHWAY 32 FOR 3.67 KM (2.28 MI) TO A CURVE TO THE RIGHT AND A GRAVEL ROAD ON THE LEFT. GO LEFT, NORTH ON THE GRVEL ROAD FOR ABOUT 30. 0 METERS TO THE STATION ON THE LEFT. THE STATION IS 8.95 METERS WEST OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410003 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	410003A
Geodetic Azimuth	179 34 51.81680
Grid Azimuth	180 45 17.47329

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303
Ref Mon # 2	HOPEPORT
Ref Mon # 3	NEW BOSTON MAG STA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410003A	1/28/1999	AHTD	LITTLE RIVER	32	030202

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	513,816.0581	
Easting (M)	205,543.8420	
Elevation (M)*	100.140	
Northing (SFT)	1,685,744.8506	
Easting (SFT)	674,355.0883	
Elevation (SFT)*	328.543	

Convergence Angle	-1	10	25.5642350
Scale Factor	0.999938038		
Elevation Adjust. Factor	0.9999842850		
Combined Adjust. Factor	0.9999223240		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	40	29.5947804
Longitude	94	5	49.8205248
Ellipsoid Height (M):	73.130		
Geoid Height (M):	-26.998		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 EAST, LOCATED IN ASHDOWN, GO EAST ON STATE HIGHWAY 32 FOR 3.15 KM (1.96 MI) TO THE STATION ON THE RIGHT. THE STATION IS 48.45 METERS NORTH OF THE CENTER OF COUNTY ROAD 700, 18.20 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 10.95 METERS EAST OF THE CENTER OF STATE HIGHWAY 32 AND 1.165 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "410003A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	410003
Geodetic Azimuth	359 34 51.90863
Grid Azimuth	0 45 17.473294

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303
Ref Mon # 2	HOPEPORT
Ref Mon # 3	NEW BOSTON MAG STA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410004	2/11/2003	AHTD	LITTLE RIVER	N/A	030208,030295,30108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	503,012.1772	
Easting (M)	204,024.9170	
Elevation (M)*		
Northing (SFT)	1,650,299.1180	
Easting (SFT)	669,371.7485	
Elevation (SFT)*		

Convergence Angle	-1	10	53.7205044
Scale Factor			0.999950103
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	34	37.9732332
Longitude	94	6	40.1273640
Ellipsoid Height (M):	58.423		
Geoid Height (M):	-26.941		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S.HIGHWAY 71/59 AND LITTLE RIVER COUNTY 23 SOUTH OF ASHDOWN. GO WEST (LEFT) ON COUNTY ROAD 23 FOR 1.21 MILES AND ROAD TURNING TO DIRT, CONTINUE ON 2.5 MILES TO THE CHESLEY FARMS AND LITTLE RIVER COUNTY ROAD 715 ON THE LEFT. TURN LEFT THROUGH GATE AND CONTINUE FOLLOWING ROAD .34 MILES THROUGH A 2ND GATE, CONTINUE ON .36 MILES THROUGH A 3RD GATE, CONTINUE ON .29 MILES TO A 4TH GATE, GO THROUGH GATE AND CONTINUE 0.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.0 METERS WEST OF THE CENTER OF THE FARM ROAD, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410004 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	410004A
Geodetic Azimuth	176 14 39
Grid Azimuth	177 25 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410004A	2/11/2003	AHTD	LITTLE RIVER	N/A	030208,030295,30108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	502,443.9782	
Easting (M)	204,050.4630	
Elevation (M)*		
Northing (SFT)	1,648,434.9518	
Easting (SFT)	669,455.5607	
Elevation (SFT)*		

Convergence Angle	-1	10	52.9119204
Scale Factor			0.999950814
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	34	19.5510936
Longitude	94	6	38.6826660
Ellipsoid Height (M):	56.434		
Geoid Height (M):	-26.938		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S.HIGHWAY 71/59 AND LITTLE RIVER COUNTY 23 SOUTH OF ASHDOWN. GO WEST (LEFT) ON COUNTY ROAD 23 FOR 1.21 MILES AND ROAD TURNING TO DIRT, CONTINUE ON 2.5 MILES TO THE CHESLEY FARMS AND LITTLE RIVER COUNTY ROAD 715 ON THE LEFT. TURN LEFT THROUGH GATE AND CONTINUE FOLLOWING ROAD .34 MILES THROUGH A 2ND GATE, CONTINUE ON .36 MILES THROUGH A 3RD GATE, CONTINUE ON .29 MILES TO A 4TH GATE, GO THROUGH GATE AND CONTINUE 0.15 MILES TO STATION 410004 ON THE RIGHT. CONTINUE ON O.35 MILES STRAIGHT AHEAD PASSING THROUGH TWO MORE GATES TO THE STATION STRAIGHT AHEAD SET ON THE BANK OF THE RED RIVER NEXT TO 4 STRANDS OF BARB WIRE. THE STATION IS 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410004A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	410004
Geodetic Azimuth	356 14 40
Grid Azimuth	357 25 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410005	2/11/2003	AHTD	LITTLE RIVER	N/A	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	508,376.7001
Easting (M)	202,008.5650
Elevation (M)*	
Northing (SFT)	1,667,899.2236
Easting (SFT)	662,756.4337
Elevation (SFT)*	
Convergence Angle	-1 11 39.9006546
Scale Factor	0.999943816
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 37 30.7056396
Longitude	94 8 2.6374920
Ellipsoid Height (M):	60.886
Geoid Height (M):	-26.966

Location Description

TO REACH THE STATION FROM THE COUNTY COURT HOUSE IN ASHDOWN GO SOUTH DOWN 2ND STREET 0.30 MILES (STREET BECOMES MARTIN LUTHER KING JR DRIVE) HERE, CONTINUE ON MLK JR DRIVE FOR A TOTAL DISTANCE OF 3.31MILES AND THE STATION ON THE LEFT. THE STATION IS 11.95 METERS EAST OF THE CENTER OF MLK JR. DR (CO ROAD 23), 5.50 METERS SOUTH OF A GRAVEL DRIVE, AND 1.45 METERS WEST OF A WITNESS. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED" 410005 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	355	21.80	71.5
MK # 2	GATE POST	104	9.50	31.2
MK # 3				

AZ Mark Station	410005A
Geodetic Azimuth	359 50 52
Grid Azimuth	1 02 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410005A	2/11/2003	AHTD	LITTLE RIVER	N/A	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	509,180.5522
Easting (M)	202,023.1900
Elevation (M)*	
Northing (SFT)	1,670,536.5283
Easting (SFT)	662,804.4159
Elevation (SFT)*	
Convergence Angle	-1 11 39.9470091
Scale Factor	0.999942927
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 37 56.8020360
Longitude	94 8 2.7203136
Ellipsoid Height (M):	61.693
Geoid Height (M):	-26.970

Location Description

TO REACH THE STATION FROM THE COUNTY COURT HOUSE IN ASHDOWN GO SOUTH DOWN 2ND STREET 0.30 MILES (STREET BECOMES MARTIN LUTHER KING JR DRIVE) HERE, CONTINUE ON MLK JR DRIVE FOR A TOTAL DISTANCE OF 2.81 MILES AND THE STATION ON THE RIGHT AT THE HANEY CREEK MISSIONARY BAPTIST CHURCH. THE STATION IS 6.80 METERS WEST OF THE CENTER OF MARTIN LUTHER KING JR. DRIVE (CO. ROAD 23), AND 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410005A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	234	3.50	11.5
MK # 2	TELEPHONE POLE	354	2.50	8.2
MK # 3				

AZ Mark Station	410005
Geodetic Azimuth	179 50 52
Grid Azimuth	181 02 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410006	2/11/2003	AHTD	LITTLE RIVER	71	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	518,479.1192	
Easting (M)	201,010.2110	
Elevation (M)*		
Northing (SFT)	1,701,043.5769	
Easting (SFT)	659,481.0006	
Elevation (SFT)*		

Convergence Angle	-1	12	6.1771880
Scale Factor			0.999933814
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	42	57.8693592
Longitude	94	8	49.5858048
Ellipsoid Height (M):	71.871		
Geoid Height (M):	-27.042		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 108 LOCATED NORTH OF ASHDOWN, GO NORTH ON U.S. HIGHWAY 71 FOR 1.31 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.35 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 4.40 METERS WEST OF A WEBB WIRE FENCE LINE, AND 4.22 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 410006 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LOG MILE 14 SIGN POST	265	6.20	20.3
MK # 2	POWER POLE	4	26.90	88.3
MK # 3	NORTHERN MOST WOODEN BRACE POST	157	16.80	55.1

AZ Mark Station	410006A
Geodetic Azimuth	356 36 24
Grid Azimuth	357 48 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410006A	2/11/2003	AHTD	LITTLE RIVER	71	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	519,095.6182
Easting (M)	200,986.6190
Elevation (M)*	
Northing (SFT)	1,703,066.2074
Easting (SFT)	659,403.5992
Elevation (SFT)*	
Convergence Angle	-1 12 6.9710694
Scale Factor	0.999933283
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	43	17.8596912
Longitude	94	8	51.0042336
Ellipsoid Height (M):	71.316		
Geoid Height (M):	-27.048		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 108 LOCATED NORTH OF ASHDOWN, GO NORTH ON U.S. HIGHWAY 71 FOR 1.70 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 9.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410006A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF PLASTIC PIPE	282	4.80	15.7
MK # 2	SOUTH GATE POST	22	6.40	21.0
MK # 3	GAS PIPE LINE MARKER	161	14.80	48.6

AZ Mark Station	410006
Geodetic Azimuth	176 36 24
Grid Azimuth	177 48 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410007	2/11/2003	AHTD	LITTLE RIVER	71	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	523,955.8802
Easting (M)	201,024.0370
Elevation (M)*	
Northing (SFT)	1,719,011.9170
Easting (SFT)	659,526.3614
Elevation (SFT)*	

Convergence Angle	-1	12	8.3749254
Scale Factor			0.999929425
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	45	55.6082784	
Longitude	94	8	53.5125048	
Ellipsoid Height (M):	62.507			
Geoid Height (M):	-27.108			

Location Description

TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO SOUTH ON U.S. HIGHWAY 71 FOR 1.70 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.35METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410007 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	410007A
Geodetic Azimuth	358 39 54
Grid Azimuth	359 52 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410007A	2/11/2003	AHTD	LITTLE RIVER	71	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	524,690.2402
Easting (M)	201,022.3350
Elevation (M)*	
Northing (SFT)	1,721,421.2297
Easting (SFT)	659,520.7774
Elevation (SFT)*	
Convergence Angle	-1 12 8.7471394
Scale Factor	0.999928893
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	46	19.4382012
Longitude	94	8	54.1775400
Ellipsoid Height (M):	62.677		
Geoid Height (M):	-27.118		

Location Description

TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO SOUTH ON U.S. HIGHWAY 71 FOR 1.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "410007A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	410007
Geodetic Azimuth	178 39 53
Grid Azimuth	179 52 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410008	2/23/2012	AHTD	Little River	41	030415

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	540,275.8841	
Easting (M)	177,402.1386	
Elevation (M)*	94.725	
Northing (SFT)	1,772,555.1298	
Easting (SFT)	582,026.8497	
Elevation (SFT)*	310.776	

Convergence Angle	-1	20	50.3957909
Scale Factor	0.999920898		
Elevation Adjust. Factor	0.9999851348		
Combined Adjust. Factor	0.9999060340		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	33	54	28.1410380
Longitude	94	24	26.2077912
Ellipsoid Height (M):	67.260		
Geoid Height (M):	-27.495		

Location Description

The station is located at the southwest corner of the junction of highways 41 and 380 at Billingsleys corner southwest of Horatio. 184 feet south of the center of hwy-380, 78.7 feet west of the center of hwy-41 and 2 feet WNW of a witness post. The station mark is a 2 1/2in. cap stamped "410008 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	410008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410008A	2/23/2012	AHTD	Little River	41	030415

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	539,679.4637	
Easting (M)	177,114.9339	
Elevation (M)*	95.693	
Northing (SFT)	1,770,598.3738	
Easting (SFT)	581,084.5790	
Elevation (SFT)*	313.954	

Convergence Angle	-1	20	56.3457305
Scale Factor	0.999921111		
Elevation Adjust. Factor	0.9999849828		
Combined Adjust. Factor	0.9999060950		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	33	54	8.5683384
Longitude	94	24	36.8385552
Ellipsoid Height (M):	68.221		
Geoid Height (M):	-27.482		

Location Description

To reach the station from the junction of highways 41 and 380 southwest of Horatio go south on hwy-41 for 0.40 miles to the station on the left at the end of a guard rail. 68.9 ft. northeast of a bridge corner, 25.6 ft. east of the center of hwy-41 and 2 feet east of a witness post. The station mark is a 2 1/2in. cap stamped "410008A 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	410008
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410009	4/29/2019	ARDOT	LITTLE RIVER	71	030531

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	503,562.5275	0.0020
Easting (M)	210,628.4754	0.0020
Elevation (M)*	89.998	0.0006
Northing (SFT)	1,652,104.7256	
Easting (SFT)	691,036.9230	
Elevation (SFT)*	295.269	

Convergence Angle	-1	8	30.6641693
Scale Factor	0.999949256		
Elevation Adjust. Factor	0.9999858765		
Combined Adjust. Factor	0.9999351332		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 12B		
Latitude	33	35	0.1790880
Longitude	94	2	24.5284440
Ellipsoid Height (M):	62.960		0.0070
Geoid Height (M):	-27.030		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I30, GO NORTH
ON HWY 71/59 FROM THE INTERSECTION OF HWY 71/59 AND I30 FOR 8.8 MILES TO THE STATION I30 FOR 9.1MILES TO THE STATION
ON THE LEFT. THE POINT IS A 2' ALUMINUM CAP STAMPED "2019 2019 410009" ON TOP OF A 4 FOOT
REBAR DRIVEN BELOWTHE SURFACE OF THE GROUND, 11.0 FEET SOUTH WEST OF A WITNESS
POST, IN THE MEDIAN BETWEEN THE SOUTH BOUND AND THE NORTH BOUND LANES OF HWY 71/59.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	4'X5' CONC. DI IN MEDIAN	302	44.70	146.7
MK # 2	C/L OF HWY 71/59 N BND	240	17.00	55.8
MK # 3	C/L OF HWY 71/59 S BND	65	8.00	26.2

AZ Mark Station	410009A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXCR

Comments

Digital levels ran from NGS BM Q307 during job 030531 by crew S5102 in May 2019

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
410009A	4/29/2019	ARDOT	LITTLE RIVER	71	030531

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	503,316.5144	0.0030
Easting (M)	210,856.1774	0.0030
Elevation (M)*	92.140	0.0007
Northing (SFT)	1,651,297.5977	
Easting (SFT)	691,783.9754	
Elevation (SFT)*	302.294	

Convergence Angle	-1	8	25.6164958
Scale Factor	0.999949553		
Elevation Adjust. Factor	0.9999855405		
Combined Adjust. Factor	0.9999350942		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 12B		
Latitude	33	34	52.3425360
Longitude	94	2	15.5097600
Ellipsoid Height (M):	65.108		0.0100
Geoid Height (M):	-27.029		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I30, GO NORTH
ON HWY 71/59 FROM THE INTERSECTION OF HWY 71/59 AND I30 FOR 8.8 MILES TO THE STATION I30 FOR 8.8MILES TO THE STATION
ON THE RIGHT. THE POINT IS A 2' ALUMINUM CAP STAMPED "2019 2019 410009A" ON TOP OF A 4 FOOT
REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 35.0 FEET WEST OF A WITNESS
POST, 75.4 FEET NORTH WEST OF THE C/L OF HWY 380, 28.0 FEET EAST OF THE C/L OF
THE NORTH BOUND LANES OF HWY 71/59.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	P.P. #169	186	31.90	104.7
MK # 2	P.P. #68873	292	22.60	74.1
MK # 3	TELEPHONE BOX	255	11.80	38.7

AZ Mark Station	410009
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXCR

Comments

Digital levels ran from NGS BM Q307 during job 030531 by crew S5102 in May 2019

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420001	2/17/1994	AHTD	LOGAN	217	R40099

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	86,545.6761
Easting (M)	231,638.2190
Elevation (M)*	162.462
Northing (SFT)	283,941.9390
Easting (SFT)	759,966.3902
Elevation (SFT)*	533.011

Convergence Angle	-1	4	28.4960346
Scale Factor			0.999971535
Elevation Adjust. Factor			0.9999745051
Combined Adjust. Factor			0.9999460408

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	57.1279812
Longitude	93	50	48.0526404
Ellipsoid Height (M):	131.761		
Geoid Height (M):	-30.701		

Location Description

FROM THE JCT. OF HWY. 217 AND HWY. 23 IN BOONEVILLE, GO EAST ON HWY. 217 FOR 9.14 KM (5.68 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.70 METERS NORTH NORTHEAST OF THE CENTERLINE OF HWY. 217, 30.0 METERS SOUTHEAST OF A FIELD ENTRANCE AND 1.76 METERS SOUTH SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINMUM CAP STAMPED "420001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	337	9.85	32.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	420001A
Geodetic Azimuth	135 00 28.26697
Grid Azimuth	136 04 56.71334

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	Q-299
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420001A	2/17/1994	AHTD	LOGAN	217	R40099

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	86,175.2491
Easting (M)	231,994.9070
Elevation (M)*	153.100
Northing (SFT)	282,726.6298
Easting (SFT)	761,136.6240
Elevation (SFT)*	502.296

Convergence Angle	-1	4	20.1429627
Scale Factor			0.999972018
Elevation Adjust. Factor			0.9999759742
Combined Adjust. Factor			0.9999479929

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	45.3264972
Longitude	93	50	33.6977952
Ellipsoid Height (M):	122.403		
Geoid Height (M):	-30.697		

Location Description

FROM THE JCT. OF HWY. 217 AND HWY. 23 IN BOONEVILLE, GO EAST ON HWY. 217 FOR 9.65 KM (5.99 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.90 METERS SOUTH SOUTHWEST OF THE CENTERLINE OF HWY. 217 AND 1.145 METERS NORTH NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "420001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MONUMENT	346	40.83	134.0
MK # 2	CONCRETE RIGHT OF WAY MONUMENT	20	24.66	80.9
MK # 3	NONE			

AZ Mark Station	420001
Geodetic Azimuth	315 00 36.52060
Grid Azimuth	316 04 56.71334

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	Q-299
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420002	2/17/1994	AHTD	LOGAN	109	R40099

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	89,730.8751	
Easting (M)	235,010.4200	
Elevation (M)*	131.883	
Northing (SFT)	294,392.0461	
Easting (SFT)	771,030.0196	
Elevation (SFT)*	432.686	

Convergence Angle	-1	3	12.3751222
Scale Factor	0.999967372		
Elevation Adjust. Factor	0.9999793037		
Combined Adjust. Factor	0.9999466764		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	7	42.5024868
Longitude	93	48	37.2380220
Ellipsoid Height (M):	101.266		
Geoid Height (M):	-30.617		

Location Description

FROM THE JCT. OF HWY. 10 AND HWY. 109 IN THE TOWN OF MAGAZINE, GO SOUTH ON HWY. 109 FOR 2.84 KM (1.77 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 5.70 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 109, 5.30 METERS NORTH NORTHWEST OF THE BRIDGE END, 4.50 METERS NORTH NORTHWEST OF A WITNESS POST AND 0.57 METERSSOUTHWEST OF ANOTHER WITNESS POST ADJACENT TO THE GUARD RAIL. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "420002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FOURTH GUARD RAIL POST FROM END OF BRIDGE	125	2.50	8.2
MK # 2	EIGHTH GUARD RAIL POST FROM END OF BRIDGE	333	2.40	7.9
MK # 3	NONE			

AZ Mark Station	420002A
Geodetic Azimuth	109 19 43.35582
Grid Azimuth	110 22 55.68535

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	Q-299
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420002A	2/17/1994	AHTD	LOGAN	109	R40099

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	89,599.6341	
Easting (M)	235,363.6530	
Elevation (M)*	156.490	
Northing (SFT)	293,961.4662	
Easting (SFT)	772,188.9182	
Elevation (SFT)*	513.418	

Convergence Angle	-1	3	4.2023550
Scale Factor			0.999967527
Elevation Adjust. Factor			0.9999754422
Combined Adjust. Factor			0.9999429700

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	7	38.4549240	
Longitude	93	48	23.1930324	
Ellipsoid Height (M):	125.877			
Geoid Height (M):	-30.613			

Location Description

FROM THE JCT. OF HWY. 10 AND HWY. 109 IN THE TOWN OF MAGAZINE, GO SOUTH ON HWY. 109 FOR 3.21 KM (1.99 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.975 METERS NORTHEAST OF THE CENTERLINE OF HWY. 109, 13.95 METERS EAST OF A TRACK ROAD, 6.10 METERS SOUTHWEST OF A FENCE LINE AND 0.60 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "420002A" SET ON TOP OF A 3/4" REBAR 0.457 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	330	8.33	27.3
MK # 2	NBC IN FENCE POST	300	18.68	61.3
MK # 3	NONE			

AZ Mark Station	420002
Geodetic Azimuth	289 19 51.43737
Grid Azimuth	290 22 55.68535

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	Q-299
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420003	4/23/1996	AHTD	LOGAN	309	4818

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	104,924.4611	
Easting (M)	246,874.4190	
Elevation (M)*	168.577	
Northing (SFT)	344,239.6695	
Easting (SFT)	809,953.8230	
Elevation (SFT)*	553.073	

Convergence Angle	0	58	45.6986170
Scale Factor	0.999951146		
Elevation Adjust. Factor	0.9999735455		
Combined Adjust. Factor	0.9999246928		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	16	2.2872576
Longitude	93	40	58.9515384
Ellipsoid Height (M):	138.334		
Geoid Height (M):	-30.243		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 & 309 LOCATED AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HWY-109 & 309 FOR 1.61 KM. (1.0 MI.) TO A "Y" JUNCTION, GO LEFT AND EASTERLY ON HWY-309 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE LEFT. 8.35 METERS EAST OF THE CENTER OF HWY-309 AND 0.42 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	358	20.45	67.1
MK # 2	TWIN TRUNK CEDAR TREE	265	17.40	57.1
MK # 3	NONE			

AZ Mark Station	420003A
Geodetic Azimuth	358 56 33.5532
Grid Azimuth	359 55 19.25268

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	PINNACLE 1917

Comments

ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420003A	4/23/1996	AHTD	LOGAN	309	4818

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	105,435.1961	
Easting (M)	246,873.7240	
Elevation (M)*	161.652	
Northing (SFT)	345,915.3059	
Easting (SFT)	809,951.5428	
Elevation (SFT)*	530.353	

Convergence Angle	0	58	45.9156170
Scale Factor	0.999950707		
Elevation Adjust. Factor	0.9999746322		
Combined Adjust. Factor	0.9999253404		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	16	18.8577768
Longitude	93	40	59.3244552
Ellipsoid Height (M):	131.419		
Geoid Height (M):	-30.233		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 & 309 LOCATED AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HWY-109 & 309 FOR 1.61 KM. (1.0 MI.) TO A "Y" JUNCTION, GO LEFT AND EASTERLY ON HWY-309 FOR 4.75 KM. (2.95 MI.) TO THE STATION ON THE RIGHT. 9.50 METERS WEST OF THE CENTER OF HWY-309 AND 1.07 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER POST	352	15.45	50.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	420003
Geodetic Azimuth	178 56 33.3379
Grid Azimuth	179 55 19.25268

Area Reference Monuments (used for Processing)

Ref Mon # 1	OZARPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	PINNACLE 1917

Comments

ELEVATION BY 3-WIRE USING USC&GS BENCH MARK # TT 14 WM 1958

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420004	4/23/1996	AHTD	LOGAN	109	4818, 004980

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	106,568.6515	0.0020
Easting (M)	242,613.0574	0.0020
Elevation (M)*		
Northing (SFT)	349,633.9841	
Easting (SFT)	795,973.0058	
Elevation (SFT)*		

Convergence Angle	-1	0	24.4612070
Scale Factor			0.999949818
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEOID12A

Latitude	35	16	53.2364952
Longitude	93	43	48.6761268

Ellipsoid Height (M):	100.602	0.0050
Geoid Height (M):	-29.757	0.0050

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 AND 309 AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HIGHWAYS 109 & 309 FOR 1.21 KM. (0.75 MI.) TO THE STATION ON THE RIGHT. 11.90 METERS NORTH OF THE NORTH DRIVEWAY TO THE LOGAN COUNTY NURSING CENTER, 11.40 METERS SOUTH OF A GRAVEL DRIVE, 5.70 METERS WEST OF THE CENTER OF THE HIGHWAY AND 0.62 METERS EAST OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	16	53.2480116
Longitude	93	43	48.6687108
Ellipsoid Height:			99.966
Grid Northing (Meters)			106,569.0031
Grid Easting (Meters)			242,613.2510

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	116	17.00	55.8
MK # 2	COMBINATION POLE	167	5.20	17.1
MK # 3	COMBINATION POLE	358	31.50	103.3

AZ Mark Station	420004A
Geodetic Azimuth	2 08 25.29491
Grid Azimuth	3 08 49.75021

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP (OZARPORT)
Ref Mon # 2	ARLR (CLARPORT)
Ref Mon # 3	ARFY, ARHR (PINNACLE 191

Comments

OLD ELEV. (130.218m) SOURCE WAS UNDOCUMENTED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420004A	4/23/1996	AHTD	LOGAN	109	4818, 004980

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	107,068.0580	0.0020
Easting (M)	242,640.5168	0.0020
Elevation (M)*		
Northing (SFT)	351,272.4536	
Easting (SFT)	796,063.0955	
Elevation (SFT)*		

Convergence Angle	-1	0	24.0310218
Scale Factor			0.999949409
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	17	9.4666560
Longitude	93	43	47.9294436
Ellipsoid Height:			96.009
Grid Northing (Meters)			107,068.4031
Grid Easting (Meters)			242,640.7100

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	17	9.4553484	
Longitude	93	43	47.9368488	
Ellipsoid Height (M):			96.652	0.0050
Geoid Height (M):			-29.752	0.0050

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 22-109 & 309 LOCATED AT THE SOUTHEAST CORNER OF THE LOGAN COUNTY COURTHOUSE SQUARE IN PARIS, GO SOUTH ON HIGHWAY 109 & 309 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 25.55 METERS NORTH OF THE EXTENDED CENTERLINE OF KLEIN STREET, 5.60 METERS EAST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	41	29.30	96.1
MK # 2	COMBINATION POLE	114	27.00	88.6
MK # 3	GUY POLE	175	20.00	65.6

AZ Mark Station	420004
Geodetic Azimuth	182 08 25.72192
Grid Azimuth	183 08 49.75021

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP(OZARPORT)
Ref Mon # 2	ARLR(CLARPORT)
Ref Mon # 3	ARFY, ARHR (PINNACLE 191

Comments

OLD ELEV. (126.251m) SOURCE WAS UNDOCUMENTED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420005	8/10/1998	AHTD	LOGAN	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	90,115.8481	
Easting (M)	243,619.8120	
Elevation (M)*	162.500	
Northing (SFT)	295,655.0783	
Easting (SFT)	799,275.9999	
Elevation (SFT)*	533.135	

Convergence Angle	0	59	54.6789344
Scale Factor	0.999966706		
Elevation Adjust. Factor	0.9999744991		
Combined Adjust. Factor	0.9999412060		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	7	59.9953728
Longitude	93	42	57.4949664
Ellipsoid Height (M):	132.705		
Geoid Height (M):	-29.795		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 8.05 KM (5.00 MI) TO THE JUNCTION OF LLOYD ROAD AND THE STATION ON THE RIGHT. THE STATION IS 32.207 METERS WEST-SOUTHWEST OF THE CENTER OF LLOYD ROAD, 16.418 METERS NORTH OF THE CENTER OF STATE HGIWAY 10 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "420005 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

ELEVATION ON THIS STATION WAS ESTABLISHED BY 3 WIRE LEVELING FROM USC&GS BENCH MARK H 46 1934.420005 & 420005A, 91750001 & 750001A, 750009 & 750009A, 750010 & 750010A, 750011 & 750011A, 750012 & 750012A, 750013 & 750013A

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	340	20.79	68.2
MK # 2	COMBINATION POLE = TBM 901	107	45.99	150.9
MK # 3				

AZ Mark Station	420005A
Geodetic Azimuth	294 28 18.18960
Grid Azimuth	295 28 12.91646

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

ELEAVATION ON THIS STATION WAS ESTABLISHED BY 3 WIRE LEVELING FROM USC&GS BENCH MARK H 46 1934.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420005A	8/10/1998	AHTD	LOGAN	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	90,294.6670	
Easting (M)	243,244.4090	
Elevation (M)*	163.813	
Northing (SFT)	296,241.7533	
Easting (SFT)	798,044.3652	
Elevation (SFT)*	537.443	

Convergence Angle	-1	0	3.3782933
Scale Factor			0.999966494
Elevation Adjust. Factor			0.9999742931
Combined Adjust. Factor			0.9999407879

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	5.5846500
Longitude	93	43	12.4449096
Ellipsoid Height (M):	134.012		
Geoid Height (M):	-29.801		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 8.37 KM (5.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.919 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 9.939 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.77 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420005A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	348	23.97	78.6
MK # 2	EAST END OF A 0.457 METER CMP	320	33.31	109.3
MK # 3	WEST END OF A 0.381 METER CMP	103	33.43	109.7

AZ Mark Station	420005
Geodetic Azimuth	114 28 09.58604
Grid Azimuth	115 28 12.91646

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420006	8/26/1998	AHTD	LOGAN	10	040246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	92,198.5641	
Easting (M)	219,308.8360	
Elevation (M)*	175.792	
Northing (SFT)	302,488.1224	
Easting (SFT)	719,515.7394	
Elevation (SFT)*	576.744	

Convergence Angle	-1	9	14.3334826
Scale Factor	0.999964740		
Elevation Adjust. Factor	0.9999724133		
Combined Adjust. Factor	0.9999371542		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	52.7501328
Longitude	93	58	59.2674132
Ellipsoid Height (M):	145.651		
Geoid Height (M):	-30.101		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 60, LOCATED ABOUT 4.35 KM (2.70 MI) WEST OF BOONEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.96 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 9.831 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.22 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420006 1998" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	4	21.98	72.1
MK # 2	GAS METER	221	5.36	17.6
MK # 3	TELEPHONE JUNCTION BOX	246	14.54	47.7

AZ Mark Station	420006A
Geodetic Azimuth	99 53 39.129380
Grid Azimuth	101 02 53.39581

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

Elevations based on 3 wire from NGS point V 45

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420006A	8/26/1998	AHTD	LOGAN	10	040246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	92,092.2691
Easting (M)	219,853.2320
Elevation (M)*	165.883
Northing (SFT)	302,139.3862
Easting (SFT)	721,301.8120
Elevation (SFT)*	544.234
Convergence Angle	-1 9 1.7713890
Scale Factor	0.999964853
Elevation Adjust. Factor	0.9999739682
Combined Adjust. Factor	0.9999388221

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 8 49.6567788
Longitude	93 58 37.6793184
Ellipsoid Height (M):	135.786
Geoid Height (M):	-30.097

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 60, LOCATED ABOUT 4.35 KM (2.70 MI) WEST OF BOONEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS WEST OF THE CENTER OF A PAVED DRIVE, 9.57 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.13 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "420006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	90	18.65	61.2
MK # 2	POWER POLE	180	22.65	74.3
MK # 3	TELEPHONE POLE	283	27.10	88.9

AZ Mark Station	420006
Geodetic Azimuth	279 53 51.55731
Grid Azimuth	281 02 53.39581

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420007	6/25/2001	AHTD	LOGAN	309	040347

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	116,462.9031
Easting (M)	238,950.3630
Elevation (M)*	
Northing (SFT)	382,095.3746
Easting (SFT)	783,956.3159
Elevation (SFT)*	
Convergence Angle	-1 1 52.8924198
Scale Factor	0.999942886
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 22 12.1383948
Longitude	93 46 20.6461308
Ellipsoid Height (M):	92.095
Geoid Height (M):	-29.465

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 288 AND 309, LOCATED IN ROSEVILLE, GO SOUTH ON STATE HIGHWAY 309 FOR 1.416 KM (0.88 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.45 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 17.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 309, AND 0.675 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "420007 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 759.139 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A CONCRETE HEAD WALL	288	16.45	54.0
MK # 2	METAL GATE POST	260	6.80	22.3
MK # 3				

AZ Mark Station	420007A
Geodetic Azimuth	347 59 06
Grid Azimuth	349 00 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARKPORT
Ref Mon # 2	OZARPORT
Ref Mon # 3	240006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420007A	6/25/2001	AHTD	LOGAN	309	040347

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	117,208.0821
Easting (M)	238,805.7340
Elevation (M)*	
Northing (SFT)	384,540.1827
Easting (SFT)	783,481.8123
Elevation (SFT)*	

Convergence Angle	-1	1	56.5355381
Scale Factor	0.999942458		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	22	36.2307612
Longitude	93	46	26.9068692
Ellipsoid Height (M):	89.411		
Geoid Height (M):	-29.448		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 288 AND 309, LOCATED IN ROSEVILLE, GO SOUTH ON STATE HIGHWAY 309 FOR 0.66 KM (0.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 309 AND 0.545 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "420007A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 759.139 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL IN LINE BRACE POST	350	9.20	30.2
MK # 2				
MK # 3				

AZ Mark Station	420007
Geodetic Azimuth	167 59 02
Grid Azimuth	169 00 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARKPORT
Ref Mon # 2	OZARPORT
Ref Mon # 3	240006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420008	12/19/2006	AHTD	LOGAN	22	040472,004980

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,810.7451	
Easting (M)	232,434.8920	
Elevation (M)*	131.562	
Northing (SFT)	356,989.9195	
Easting (SFT)	762,580.1415	
Elevation (SFT)*	431.632	

Convergence Angle	-1	4	19.7670463
Scale Factor			0.999948171
Elevation Adjust. Factor			0.9999793541
Combined Adjust. Factor			0.9999275262

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	59.9885340
Longitude	93	50	33.0517788
Ellipsoid Height (M):	101.783		
Geoid Height (M):	-29.664		

Location Description

To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 1.20 miles to the station on the right. 32 feet west of a gravel drive to a brick house, 59 feet south of the center of Hwy-22 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420008 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	137	6.79	22.3
MK # 2	Wooden fence post	176	5.85	19.2
MK # 3	Gas meter	92	28.04	92.0

AZ Mark Station	420008A
Geodetic Azimuth	281 16 05
Grid Azimuth	282 20 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	OKHV
Ref Mon # 2	Ozarport
Ref Mon # 3	ARLR

Comments

3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420008A	12/19/2006	AHTD	LOGAN	22	040472,004980

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,942.5321	
Easting (M)	231,832.5000	
Elevation (M)*	120.506	
Northing (SFT)	357,422.2907	
Easting (SFT)	760,603.7938	
Elevation (SFT)*	395.360	

Convergence Angle	-1	4	33.6965509
Scale Factor			0.999948078
Elevation Adjust. Factor			0.9999810891
Combined Adjust. Factor			0.9999291680

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	3.8978280
Longitude	93	50	56.9897844
Ellipsoid Height (M):	90.726		
Geoid Height (M):	-29.666		

Location Description

To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 0.80 miles to the station on the right. 35 feet south of the center of Hwy-22, 39 feet east of a gravel drive and 32.0 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420008A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Metal fence corner post	219	11.64	38.2
MK # 2				
MK # 3				

AZ Mark Station	420008
Geodetic Azimuth	101 15 52
Grid Azimuth	102 20 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	OKHV
Ref Mon # 2	Ozarport
Ref Mon # 3	ARLR

Comments

3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420009	12/19/2006	AHTD	LOGAN	22	040472

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,421.2421	
Easting (M)	236,210.8100	
Elevation (M)*	123.442	
Northing (SFT)	355,712.0251	
Easting (SFT)	774,968.2991	
Elevation (SFT)*	404.993	

Convergence Angle	-1	2	52.6464598
Scale Factor	0.999948420		
Elevation Adjust. Factor	0.9999806283		
Combined Adjust. Factor	0.9999290493		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	49.6181940
Longitude	93	48	3.3341004
Ellipsoid Height (M):	93.693		
Geoid Height (M):	-29.642		

Location Description

To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 3.40 miles to the station on the right at the top of the ditch bank on the south side of the ditch. 72 feet south of the center of Hwy-22, 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420009 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Wood corner post	109	1.82	6.0
MK # 2	Railroad iron post	14	3.69	12.1
MK # 3	East end of a headwall	264	32.19	105.6

AZ Mark Station	420009A
Geodetic Azimuth	84 19 10
Grid Azimuth	85 22 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	OKHV
Ref Mon # 2	Ozarport
Ref Mon # 3	ARLR

Comments

3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420009A	12/19/2006	AHTD	LOGAN	22	040472

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,467.9381	
Easting (M)	236,787.0960	
Elevation (M)*	129.579	
Northing (SFT)	355,865.2269	
Easting (SFT)	776,858.9975	
Elevation (SFT)*	425.126	

Convergence Angle	-1	2	39.3950937
Scale Factor			0.999948375
Elevation Adjust. Factor			0.9999796653
Combined Adjust. Factor			0.9999280413

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	51.4746384
Longitude	93	47	40.5614832
Ellipsoid Height (M):	99.828		
Geoid Height (M):	-29.636		

Location Description

To reach the station from the junction of highways 22 and 23 in Caulksville, go east on Hwy-22 for 3.80 miles to the station on the left 55.4 feet north of the center of Hwy-22, 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "420009A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	79	9.14	30.0
MK # 2	East end of a culvert	133	4.57	15.0
MK # 3	Power pole	269	30.97	101.6

AZ Mark Station	420009
Geodetic Azimuth	264 19 23
Grid Azimuth	265 22 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	OKHV
Ref Mon # 2	Ozarport
Ref Mon # 3	ARLR

Comments

3-wire levels ran from NGS 2nd Order Monument "TTS 4 H" by crew S5112 in July 07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420010	3/4/2024	ARDOT	LOGAN	23	080749

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	89,257.1691	0.0010
Easting (M)	224,418.4247	0.0010
Elevation (M)*		
Northing (SFT)	292,837.8956	
Easting (SFT)	736,279.4484	
Elevation (SFT)*		

Convergence Angle	-1	7	15.5646287
Scale Factor	0.999968216		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	7	20.6117040
Longitude	93	55	35.1618420
Ellipsoid Height (M):	116.585	0.0050	
Geoid Height (M):	-30.222	0.0050	

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF STATE HIGHWAY 10 AND 23, IN BOONEVILLE, GO SOUTH ON HIGHWAY 23 FOR 1.2 MILES TO CAROLAN RD., GO RIGHT/WEST FOR 0.15 MILES TO THE STATION ON THE LEFT/SOUTH. THE STATION IS 21FT SOUTH OF THE CENTER OF CAROLAN RD., AND 3FT NORTH OF A 5 STRAND BARBWIRE FENCE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "420010 2024" AND SET ON TOP OF A 5/8IN. BY 4FT REBAR DRIVEN 0.10IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL FENCE POST	118	1.00	3.3
MK # 2	METAL FENCE POST	249	4.00	13.1
MK # 3				

AZ Mark Station	420010A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

STATIC DERIVED ELEV. 481.6486 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARDQ, ARFS, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420010A	3/4/2024	ARDOT	LOGAN	23	080749

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	89,077.9337	0.0010
Easting (M)	224,073.2080	0.0010
Elevation (M)*		
Northing (SFT)	292,249.8541	
Easting (SFT)	735,146.8499	
Elevation (SFT)*		

Convergence Angle	-1	7	23.4163098
Scale Factor	0.999968450		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	7	14.5772256	
Longitude	93	55	48.6550416	
Ellipsoid Height (M):	107.230			0.0050
Geoid Height (M):	-30.229			0.0050

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF STATE HIGHWAY 10 AND 23, IN BOONEVILLE, GO SOUTH ON HIGHWAY 23 FOR 1.2 MILES TO CAROLAN RD., GO RIGHT/WEST FOR 0.4 MILES TO THE STATION ON THE LEFT/SOUTH. THE STATION IS 24FT SOUTH OF THE CENTER OF CAROLAN RD. AND 3FT NORTH OF A 5 STRAND BARBWIRE FENCE. THE STATION MARK IS A STANDARD 2 1/2IN. CAP STAMPED "420010A 2024" AND SET ON TOP OF A 5/8IN. BY 4FT. REBAR DRIVEN 0.10IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL FENCE POST	215	2.50	8.2
MK # 2	METAL FENCE POST	99	1.50	4.9
MK # 3				

AZ Mark Station	420010
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #420010 WHOSE ELEVATION IS STATIC DERIVED. LEVELED ELEVATION IS 450.9881 US FT AND THE STATIC DERIVED ELEV. IS 450.9814 US FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420011	3/4/2024	ARDOT	LOGAN	309	08X378, 080750

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	114,310.9914	0.0020
Easting (M)	241,044.2151	0.0020
Elevation (M)*		
Northing (SFT)	375,035.3110	
Easting (SFT)	790,825.8957	
Elevation (SFT)*		

Convergence Angle	-1	1	3.7491601
Scale Factor	0.999944177		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	21	3.5355528
Longitude	93	44	56.1929028
Ellipsoid Height (M):	81.757	0.0100	
Geoid Height (M):	-29.631	0.0100	

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF STATE HIGHWAY 22 AND 309 IN PARIS, GO NORTH ON HIGHWAY 309 FOR 4.25 MILES TO THE STATION ON THE LEFT/WEST. THE STATION IS 24FT. WEST OF THE CENTERLINE OF HIGHWAY 309 AND 19FT. SOUTH OF THE CENTER OF THE LEVEE ROAD. THE STATION MARK IS A STANDARD 2 1/2IN. CAP STAMPED "420011 2024" AND SET ON TOP OF A 5/8IN. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF LEVEE GATE	286	32.30	106.0
MK # 2				
MK # 3				

AZ Mark Station	420011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

STATIC DERIVED ELEV. 365.4468 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARDQ, ARFY & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
420011A	3/4/2024	ARDOT	LOGAN	309	08X378, 080750

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	114,715.3461	0.0020
Easting (M)	241,044.1425	0.0020
Elevation (M)*	108.644	
Northing (SFT)	376,361.9313	
Easting (SFT)	790,825.6575	
Elevation (SFT)*	356.442	

Convergence Angle	-1	1	3.9163658
Scale Factor			0.999943921
Elevation Adjust. Factor			0.9999829505
Combined Adjust. Factor			0.9999268725

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	21	16.6546404
Longitude	93	44	56.4802476
Ellipsoid Height (M):	79.033	0.0100	
Geoid Height (M):	-29.622	0.0100	

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF STATE HIGHWAY 22 AND 309 IN PARIS, GO NORTH ON HIGHWAY 309 FOR 4.5 MILES TO THE STATION ON THE LEFT/WEST. THE STATION IS ACROSS HWY 309 FROM PARIS BOTTOMS ROAD, AND 17FT. WEST OF THE CENTERLINE OF HWY 309, AND 21FT NORTH OF A GRAVEL FIELD ROAD. THE STATION MARK IS A STANDARD 2 1/2IN. CAP STAMPED "420011A 2024" AND SET ON TOP OF A 5/8IN. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" CMP UNDER FIELD ROAD	228	5.50	18.0
MK # 2				
MK # 3				

AZ Mark Station	420011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #420011 WHOSE ELEVATION IS STATIC DERIVED.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430001	12/4/1995	AHTD	LONOKE	5	48,061229,061261,061383,06

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	68,249.1100
Easting (M)	394,175.5197
Elevation (M)*	90.613
Northing (SFT)	223,913.9551
Easting (SFT)	1,293,224.1842
Elevation (SFT)*	297.287

Convergence Angle	0	2	13.5741185
Scale Factor			0.999997058
Elevation Adjust. Factor			0.9999857800
Combined Adjust. Factor			0.9999828380

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	56	54.5929332
Longitude	92	3	49.5412128
Ellipsoid Height:			62.770
Grid Northing (Meters)			68,249.7011
Grid Easting (Meters)			394,175.7070

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	56	54.5737499
Longitude	92	3	49.5485798
Ellipsoid Height (M):	63.539		
Geoid Height (M):	-27.068		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-321 AND HWY-367 ABOUT 8.0 KM. NORTH OF JACKSONVILLE, GO NORTH ON HWY-5 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE RIGHT NEAR THE SOUTHEAST END OF THE HWY-67-167 OVERPASS. 7.70 METERS NORTHEAST OF THE CENTER OF HWY-5, 1.50 METERS EAST OF THE SOUTHEAST END OF THE BRIDGE AND 0.83 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430001 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN SOUTHEAST END OF BRIDGE	287	2.15	7.1
MK # 2	NBC IN WOODEN GUARD RAIL POST	216	0.85	2.8
MK # 3	NBC IN WOODEN GUARD RAIL POST	151	4.06	13.3

AZ Mark Station	430001A
Geodetic Azimuth	235 55 14
Grid Azimuth	235 57 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	430017A, 430014, 430014A
Ref Mon # 3	430016, 430016A

Comments

PREVIOUS ELEVATION (90.651m) ON THIS STATION WAS ARRIVED AT BY USING A TBM FROM JOB # A RAIL ROAD SPIKE SET IN A LARGE OAK TREE IN THE NORHTEAST CORNER OF THE JUNCTION OF HWY-5 AND HWY-321. UPDATED ELEVATION BASED ON DIGITAL LEVELS BY S5111 IN JUNE OF 2011 FROM NGS 1ST ORDER BM RV 152 TO NGS 1ST ORDER BM RV 135 UNDER P.E. JOB #061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430001A	12/4/1995	AHTD	LONOKE	N/A	)01748,061229,061261,06138

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	67,962.4730	
Easting (M)	393,751.2390	
Elevation (M)*	92.257	
Northing (SFT)	222,973.5468	
Easting (SFT)	1,291,832.1900	
Elevation (SFT)*	302.680	

Convergence Angle	0	2	23.2996722
Scale Factor			0.999997556
Elevation Adjust. Factor			0.9999855221
Combined Adjust. Factor			0.9999830781

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	56	45.2825016
Longitude	92	4	6.2543820
Ellipsoid Height:			64.403
Grid Northing (Meters)			67,963.0711
Grid Easting (Meters)			393,751.4340

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	56	45.2630900
Longitude	92	4	6.2620500
Ellipsoid Height (M):	65.193		
Geoid Height (M):	-27.064		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5, HWY-321 AND HWY-367 ABOUT 8.0 KM. NORTH OF JACKSONVILLE, GO NORTH ON HWY-5 FOR 0.56 KM. (0.35 MI.) TO A PAVED ACCESS ROAD ON THE LEFT, GO LEFT ON THE ACCESS ROAD AND CONTINUE AHEAD SOUTHERLY FOR 0.56 KM. (0.35 MI.) TO THE STATION ON THE LEFT JUST OVER THE GUARD RAIL. 32.11 METERS NORTHWEST OF THE WEST EDGE OF THE CONCRETE SOUTH BOUND LANE OF HWY-67-167, 6.06 METERS SOUTHEAST OF THE CENTER OF THE ACCESS ROAD AND 0.54 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430001A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"X" CUT IN CONCRETE GUARD RAIL POST	250	1.99	6.5
MK # 2	COMBINATION POLE	289	22.90	75.1
MK # 3	MAN HOLE	316	18.46	60.6

AZ Mark Station	430001
Geodetic Azimuth	55 55 04
Grid Azimuth	55 57 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	430017A, 430014, 430014A
Ref Mon # 3	430016, 430016A

Comments

PREVIOUS ELEVATION (92.281m) ON THIS STATION WAS ARRIVED AT BY USING A TBM FROM JOB # A RAIL ROAD SPIKE SET IN A LARGE OAK TREE IN THE NORHTEAST CORNER OF THE JUNCTION OF HWY-5 AND HWY-321. UPDATED ELEVATION BASED ON DIGITAL LEVELS BY S5111 IN JUNE OF 2011 FROM NGS 1ST ORDER BM RV 152 TO NGS 1ST ORDER BM RV 135 UNDER P.E. JOB #061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430002	12/4/1995	AHTD	LONOKE	5	061085, 060906

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	72,805.0788	0.0020
Easting (M)	393,464.0824	0.0020
Elevation (M)*	135.128	
Northing (SFT)	238,861.3294	
Easting (SFT)	1,290,890.0770	
Elevation (SFT)*	443.332	

Convergence Angle	0	2	29.9656295
Scale Factor			0.999989426
Elevation Adjust. Factor			0.9999787945
Combined Adjust. Factor			0.9999682207

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	59	22.3991988
Longitude	92	4	17.7186108
Ellipsoid Height:			107.804
Grid Northing (Meters)			72,805.0570
Grid Easting (Meters)			393,464.0560

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	59	22.3999080	
Longitude	92	4	17.7175704	
Ellipsoid Height (M):			107.793	0.0070
Geoid Height (M):			-27.272	0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-89 ABOUT 5.0 KM. WEST OF CABOT, GO NORTH ON HWY-5 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT ON TOP OF A CUT BANK ABOUT 6.0 METERS ABOVE HWY-5. 14.03 METERS WEST OF THE CENTER OF HWY-5, 12.20 METERS EAST OF THE CENTER OF A TRACK ROAD THAT IS USED TO ACCESS THE STATION AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430002 1995" SET ON TOP OF AN IRON ROD 1.0 METER LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	430002A
Geodetic Azimuth	4 09 47
Grid Azimuth	4 12 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARSC

Comments

NAD 83 (1986)LAT 34 59 22.418443 (N)LON 92 04 17.711281 (W)
**********SUPERCEDED GEOID HT. = -27.166m & SUPERCEDED REF. MONUMENTS WERE AHTD LROC, AHTD MON 1 & BUTLER
**********UPDATED STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430002A	12/4/1995	AHTD	LONOKE	5	061085, 060906

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	73,444.2395	0.0020
Easting (M)	393,511.0760	0.0020
Elevation (M)*	129.765	
Northing (SFT)	240,958.3091	
Easting (SFT)	1,291,044.2552	
Elevation (SFT)*	425.737	

Convergence Angle	0	2	28.8979561
Scale Factor			0.999988396
Elevation Adjust. Factor			0.9999796361
Combined Adjust. Factor			0.9999680323

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	59	43.1411712
Longitude	92	4	15.8839428
Ellipsoid Height:			102.466
Grid Northing (Meters)			73,444.2170
Grid Easting (Meters)			393,511.0460

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	59	43.1419020
Longitude	92	4	15.8827620
Ellipsoid Height (M):	102.433		0.0070
Geoid Height (M):	-27.283		0.0070

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-89 ABOUT 5.0 KM. WEST OF CABOT, GO NORTH ON HWY-5 FOR 1.45 KM. (0.90 MI.) TO THE STATION ON THE RIGHT. 18.10 METERS NORTH OF THE CENTER OF "192 ARKY COVE ROAD", 13.49 METERS EAST OF THE CENTER OF HWY-5, 8.36 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY AND 1.56 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430002A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	97	1.74	5.7
MK # 2	GUY POLE	281	28.49	93.5
MK # 3	COMBINATION POLE	2	28.03	92.0

AZ Mark Station	430002
Geodetic Azimuth	184 09 48
Grid Azimuth	184 12 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARSC

Comments

NAD 83 (1986)LAT 34 59 43.160320 (N)LON 92 04 15.876474 (W)
**********SUPERCEDED GEOID HT. = -27.178m & SUPERCEDED REF. MONUMENTS WERE AHTD LROC, AHTD MON 1 & BUTLER
**********UPDATED STATIC DERIVED ELEV. BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430003	12/4/1995	AHTD	LONOKE	5	001748, 060906

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	79,389.0893	0.0020
Easting (M)	392,333.6018	0.0020
Elevation (M)*	92.178	
Northing (SFT)	260,462.3705	
Easting (SFT)	1,287,181.1586	
Elevation (SFT)*	302.421	

Convergence Angle	0	2	56.0332494	
Scale Factor			0.999979294	
Elevation Adjust. Factor			0.9999855345	
Combined Adjust. Factor			0.9999648288	

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	2	56.0233896	
Longitude	92	5	2.5150596	
Ellipsoid Height (M):			64.729	0.0080
Geoid Height (M):			-27.418	0.0080

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA, GO SOUTH ON HWY-5 FOR 6.20 KM. (3.85 MI.) TO THE JUNCTION WITH HWY-319, CONTINUE SOUTH ON HWY-5 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 14.29 METERS NORTH OF THE CENTER OF A GRAVEL ENTRANCE TO A CAR WASH, 11.85 METERS EAST OF THE CENTER OF HWY-5 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430003 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	2	56.0408136
Longitude	92	5	2.5082844
Ellipsoid Height:	64.128		
Grid Northing (Meters)	79,389.6261		
Grid Easting (Meters)	392,333.7740		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	153	39.99	131.2
MK # 2	TELEPHONE JUNCTION BOX	218	33.10	108.6
MK # 3	GUY POLE	298	30.15	98.9

AZ Mark Station	430003A
Geodetic Azimuth	351 30 29.8263
Grid Azimuth	351 33 25.8665

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARSC

Comments

SUPERCEDED GEOID HT. = -28.065m
SUPERCEDED REF. MONUMENTS WERE 120009, 430001 & 730001
**********UPDATED STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430003A	12/4/1995	AHTD	LONOKE	5	001748, 060906

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	79,876.8411	0.0020
Easting (M)	392,261.1990	0.0030
Elevation (M)*	87.401	

Northing (SFT)	262,062.6028	
Easting (SFT)	1,286,943.6171	
Elevation (SFT)*	286.748	

Convergence Angle	0	2	57.7053859
Scale Factor			0.999978586
Elevation Adjust. Factor			0.9999862841
Combined Adjust. Factor			0.9999648704

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	3	11.8668060
Longitude	92	5	5.3817180
Ellipsoid Height:			59.352
Grid Northing (Meters)			79,877.3891
Grid Easting (Meters)			392,261.3750

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	3	11.8490184	
Longitude	92	5	5.3886444	
Ellipsoid Height (M):			59.937	0.0080
Geoid Height (M):			-27.428	0.0080

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA, GO SOUTH ON HWY-5 FOR 6.20 KM. (3.85 MI.) TO THE JUNCTION WITH HWY-319, CONTINUE SOUTH ON HWY-5 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT. 41.8 METERS NORTH-NORTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.10 METERS NORTHEAST OF THE CENTER OF HWY-5 AND 0.97 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430003A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER POST	343	4.85	15.9
MK # 2	6" (0.15 M) CEDAR TREE	147	20.10	65.9
MK # 3	NONE			

AZ Mark Station	430003
Geodetic Azimuth	171 30 28.17609
Grid Azimuth	171 33 25.86654

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARSC

Comments

SUPERCEDED GEOID HT. = -28.072m
SUPERCEDED REF. MONUMENTS WERE 120009, 430001 & 730001
**********UPDATED STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430004	11/21/1996	AHTD	LONOKE	N/A	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	608,323.0979	
Easting (M)	402,736.3930	
Elevation (M)*	70.029	
Northing (SFT)	1,995,806.6970	
Easting (SFT)	1,321,310.9827	
Elevation (SFT)*	229.753	

Convergence Angle	0	1	0.0687385
Scale Factor			0.999958060
Elevation Adjust. Factor			0.9999890103
Combined Adjust. Factor			0.9999470707

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	32	41.6332932	
Longitude	91	58	12.6751152	
Ellipsoid Height (M):	42.997			
Geoid Height (M):	-27.032			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256,15 AND U.S. HIGHWAY 165 IN ENGLAND GO NORTH ON U.S. HWY-165 FOR 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH "HAYWOOD ST." GO LEFT AND WEST ON" HAYWOOD ST." FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE RIGHT ON THE OLD RAILROAD RIGHT OF WAY. 47.15 METERS SOUTHWEST OF THE CENTER OF HWY-165 (MAIN STREET), 42.1 METERS NORTHEAST OF THE CENTER OF "ALLIS ST.", 13.90 METERS NORTH-NORTHWEST OF "HAYWOOD ST." AND 3.27 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PARKING SIGN	164	3.35	11.0
MK # 2	COMBINATION POLE	238	35.70	117.1
MK # 3	LIGHT POLE	53	40.35	132.4

AZ Mark Station	430004A
Geodetic Azimuth	159 42 47.89191
Grid Azimuth	159 41 47.85213

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "L 53 1934" SET IN THE WEST WALL OF THE BANK OF ENGLAND. ELEVATION = 71.672 METERS. NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430004A	11/21/1996	AHTD	LONOKE	N/A	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	607,778.8849	
Easting (M)	402,937.7400	
Elevation (M)*	69.515	
Northing (SFT)	1,994,021.2249	
Easting (SFT)	1,321,971.5687	
Elevation (SFT)*	228.067	

Convergence Angle	0	1	4.4849324
Scale Factor			0.999957302
Elevation Adjust. Factor			0.9999890909
Combined Adjust. Factor			0.9999463934

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	23.9696376
Longitude	91	58	4.7846964
Ellipsoid Height (M):	42.491		
Geoid Height (M):	-27.024		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256,15 AND U.S. HIGHWAY 165 IN ENGLAND GO WEST ON HWY-256 FOR 0.16 KM. (0.10 MI.) TO THE JUNCTION WITH "ALLIS ST.", TURN LEFT AND SOUTH ON "ALLIS ST." AND GO 0.40 KM. (0.25 MI.) TO THE JUNCTION WITH "TAYLOR ST." AND THE STATION JUST SOUTHEAST OF THE JUNCTION. 19.2 METERS SOUTHWEST OF THE CENTER OF THE OLD RAILROAD BED, 12.6 METERS NORTHEAST OF THE CENTER OF "ALLIS ST.", 10.3 METERS SOUTH-SOUTHEAST OF THE CENTER OF "TAYLOR ST." AND 0.50 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF BRICK HOUSE	239	26.75	87.8
MK # 2	LIGHT POLE	287	27.35	89.7
MK # 3	GUY POLE	313	20.70	67.9

AZ Mark Station	430004
Geodetic Azimuth	339 42 52.36591
Grid Azimuth	339 41 47.85219

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "L 53 1934" SET IN THE WEST WALL OF THE BANK OF ENGLAND. ELEVATION = 71.672 METERS. NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430005	11/21/1996	AHTD	LONOKE	165	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	608,532.4009
Easting (M)	408,038.6090
Elevation (M)*	68.143
Northing (SFT)	1,996,493.3853
Easting (SFT)	1,338,706.6697
Elevation (SFT)*	223.566

Convergence Angle	0	2	56.4657923
Scale Factor			0.999958349
Elevation Adjust. Factor			0.9999893063
Combined Adjust. Factor			0.9999476557

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	32	48.3272628	
Longitude	91	54	44.7083640	
Ellipsoid Height (M):	41.091			
Geoid Height (M):	-27.052			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256, 15 AND U.S. HIGHWAY 165 IN ENGLAND GO EAST ON U.S.165 FOR 5.39 KM. (3.35 MI.) TO THE STATION ON THE LEFT. 42.0 METERS EAST OF A FIELD ENTRANCE, 13.0 METERS NORTH OF THE CENTER OF HWY-165 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430005 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	265	7.05	23.1
MK # 2	10 INCH ELM TREE	152	23.90	78.4
MK # 3	NONE			

AZ Mark Station	430005A
Geodetic Azimuth	88 50 57.52486
Grid Azimuth	88 48 01.13537

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430005A	11/21/1996	AHTD	LONOKE	165	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	608,543.4279	
Easting (M)	408,565.1350	
Elevation (M)*	66.936	
Northing (SFT)	1,996,529.5630	
Easting (SFT)	1,340,434.1137	
Elevation (SFT)*	219.606	

Convergence Angle	0	3	8.0244525
Scale Factor			0.999958364
Elevation Adjust. Factor			0.9999894957
Combined Adjust. Factor			0.9999478601

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	48.6700296
Longitude	91	54	24.0564924
Ellipsoid Height (M):	39.882		
Geoid Height (M):	-27.054		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 256, 15 AND U.S. HIGHWAY 165 IN ENGLAND GO EAST ON U.S. 165 FOR 5.96 KM. (3.70 MI.) TO THE STATION ON THE LEFT. 14.0 METERS NORTH OF THE CENTER OF U.S. 165, 8.0 METERS WEST OF A FIELD ENTRANCE AND 0.51 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430005A 1996" SET ON TOPOF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	103	1.05	3.4
MK # 2	TELEPHONE JUNCTION BOX	181	27.30	89.6
MK # 3	NONE			

AZ Mark Station	430005
Geodetic Azimuth	268 51 09.23612
Grid Azimuth	268 48 01.13537

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430006	11/21/1996	AHTD	LONOKE	165	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	608,396.9969
Easting (M)	413,155.6710
Elevation (M)*	63.559
Northing (SFT)	1,996,049.1473
Easting (SFT)	1,355,494.8973
Elevation (SFT)*	208.526
Convergence Angle	0 4 48.7926868
Scale Factor	0.999958151
Elevation Adjust. Factor	0.9999900256
Combined Adjust. Factor	0.9999481770

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 32 43.7456256
Longitude	91 51 24.0137712
Ellipsoid Height (M):	36.487
Geoid Height (M):	-27.072

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 9.33 KM. (5.80 MI.) TO THE STATION ON THE LEFT. 17.6 METERS EAST OF A FIELD ENTRANCE, 13.5 METERS SOUTH OF THE CENTER OF U.S. 165 AND 1.60 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430006 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/TBM-919	324	35.28	115.8
MK # 2	EAST END OF METAL PIPE	294	12.80	42.0
MK # 3	NONE			

AZ Mark Station	430006A
Geodetic Azimuth	92 12 10.32309
Grid Azimuth	92 07 21.63475

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430006A	11/21/1996	AHTD	LONOKE	165	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	608,370.2328	
Easting (M)	413,877.7730	
Elevation (M)*	63.214	
Northing (SFT)	1,995,961.3388	
Easting (SFT)	1,357,863.9936	
Elevation (SFT)*	207.395	

Convergence Angle	0	5	4.6433473
Scale Factor			0.999958112
Elevation Adjust. Factor			0.9999900798
Combined Adjust. Factor			0.9999481922

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	42.8433252
Longitude	91	50	55.6933776
Ellipsoid Height (M):	36.139		
Geoid Height (M):	-27.075		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 8.69 KM. (5.40 MI.) TO THE STATION ON THE LEFT. 16.15 METERS SOUTH OF THE CENTER OF U.S. 165, 8.25 METERS EAST OF "BUFFALO ROAD" AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430006A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	89	28.05	92.0
MK # 2	SQUARE CONCRETE ROAD SIGN	321	4.65	15.3
MK # 3	NONE			

AZ Mark Station	430006
Geodetic Azimuth	272 12 26.38241
Grid Azimuth	272 07 21.63475

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING BY CREW S5101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430007	11/21/1996	AHTD	LONOKE	165	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	608,125.1919	
Easting (M)	417,294.1100	
Elevation (M)*	62.752	
Northing (SFT)	1,995,157.4004	
Easting (SFT)	1,369,072.4259	
Elevation (SFT)*	205.879	

Convergence Angle	0	6	19.6283488	
Scale Factor			0.999957762	
Elevation Adjust. Factor			0.9999901523	
Combined Adjust. Factor			0.9999479147	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	32	34.7069688	
Longitude	91	48	41.7175884	
Ellipsoid Height (M):	35.663			
Geoid Height (M):	-27.089			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 5.15 KM. (3.20 MI.) TO THE STATION ON THE RIGHT NEAR THE WEST END OF A RUNWAY. 60.84 METERS NORTH OF THE CENTER OF U.S. 165, 30.3 METERS NORTH OF THE CENTER OF A PAVED RUNWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	216	56.06	183.9
MK # 2	SOUTHEAST CORNER OF METAL AIRPLANE HANGER	286	27.21	89.3
MK # 3	NORTHEAST CORNER OF AIRPLANE HANGER	318	41.64	136.6

AZ Mark Station	430007A
Geodetic Azimuth	91 54 24.51276
Grid Azimuth	91 48 04.97962

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430007A	11/21/1996	AHTD	LONOKE	165	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	608,104.3639	
Easting (M)	417,956.3350	
Elevation (M)*	61.957	
Northing (SFT)	1,995,089.0672	
Easting (SFT)	1,371,245.0757	
Elevation (SFT)*	203.271	

Convergence Angle	0	6	34.1641448
Scale Factor			0.999957731
Elevation Adjust. Factor			0.9999902770
Combined Adjust. Factor			0.9999480084

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	33.9907128
Longitude	91	48	15.7464648
Ellipsoid Height (M):	34.864		
Geoid Height (M):	-27.093		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO WEST ON U.S. 165 FOR 4.43 KM. (2.75 MI.) TO THE JUNCTION WITH A GRAVEL DRIVEWAY ON THE RIGHT AND THE STATION AT THE EAST END OF A GRASS RUNWAY. 59.24 METERS NORTH OF THE CENTER OF U.S. 165, 6.94 METERS WEST OF THE GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430007A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF CONCRETE PIPE	175	45.50	149.3
MK # 2	POWER POLE W/TBM-926	158	44.16	144.9
MK # 3	POWER POLE	15	38.28	125.6

AZ Mark Station	430007
Geodetic Azimuth	271 54 39.23897
Grid Azimuth	271 48 04.97962

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430008	11/21/1996	AHTD	LONOKE	13	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	607,297.3799	
Easting (M)	422,294.8170	
Elevation (M)*	60.529	
Northing (SFT)	1,992,441.4872	
Easting (SFT)	1,385,478.9121	
Elevation (SFT)*	198.586	

Convergence Angle	0	8	9.3569344
Scale Factor	0.999956602		
Elevation Adjust. Factor	0.9999905011		
Combined Adjust. Factor	0.9999471035		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	7.4996376
Longitude	91	45	25.6653972
Ellipsoid Height (M):	33.422		
Geoid Height (M):	-27.109		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 13 IN HUMNOKE GO SOUTH ON STATE HIGHWAY 13 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT.22.0 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 14.85 METERS EAST OF THE CENTER OF HWY-13 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430008 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	350	32.75	107.4
MK # 2	METAL DRAIN PIPE (CMP)	190	18.93	62.1
MK # 3	NONE			

AZ Mark Station	430008A
Geodetic Azimuth	184 05 43.66801
Grid Azimuth	183 57 34.30600

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS STATION MARK "HUMNOKE AZIMUTH MARK" ELEVATION = 60.685 METERS. NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430008A	11/21/1996	AHTD	LONOKE	13	R60121

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	606,793.8459	
Easting (M)	422,259.9630	
Elevation (M)*	61.087	
Northing (SFT)	1,990,789.4761	
Easting (SFT)	1,385,364.5619	
Elevation (SFT)*	200.416	

Convergence Angle	0	8	8.5657348
Scale Factor			0.999955913
Elevation Adjust. Factor			0.9999904135
Combined Adjust. Factor			0.9999463270

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	31	51.1608144	
Longitude	91	45	27.0790344	
Ellipsoid Height (M):	33.987			
Geoid Height (M):	-27.100			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY AND STATE HIGHWAY 13 IN HUMNOKE GO SOUTH ON HWY-13 FOR 1.21 KM. (0.75 MI.) TO THE STATION ON THE RIGHT. 11.13 METERS WEST OF THE CENTER OF HWY-13, 3.80 METERS NORTH OF A FIELD ENTRANCE TO A WELL PUMP AND 1.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF METAL DRAIN PIPE	95	2.80	9.2
MK # 2	SOUTH END OF METAL DRAIN PIPE	160	8.17	26.8
MK # 3	NORTHEAST CORNER OF WELL PUMP SHE D	277	17.45	57.3

AZ Mark Station	430008
Geodetic Azimuth	4 05 42.866667
Grid Azimuth	3 57 34.30600

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	STUTPORT
Ref Mon # 3	R 107

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS STATION MARK "HUMNOKE AZIMUTH MARK" ELEVATION = 60.685 METERS. NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430009	1/19/1999	AHTD	LONOKE	13	060778

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	614,418.7559	
Easting (M)	422,390.7850	
Elevation (M)*	61.129	
Northing (SFT)	2,015,805.5350	
Easting (SFT)	1,385,793.7671	
Elevation (SFT)*	200.554	

Convergence Angle	0	8	11.8360809
Scale Factor	0.999967013		
Elevation Adjust. Factor	0.9999904070		
Combined Adjust. Factor	0.9999574203		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	35	58.6041396
Longitude	91	45	21.2359032
Ellipsoid Height (M):	34.673		
Geoid Height (M):	-26.456		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 6.49 KM (4.03 MI) TO THE STATION ON THE RIGHT SET THE CENTER OF A ROAD ON TOP OF A LEVEE. THE STATION IS 27.19 METERS SOUTH THE CENTER OF A ROAD ON TOP OF AN EAST-WEST RUNNING LEVEE, 17.359 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 1.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430009 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	353	15.49	50.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	430009A
Geodetic Azimuth	180 52 52.96459
Grid Azimuth	180 44 41.12728

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ALMYPORT
Ref Mon # 3	AHTD LR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430009A	1/19/1999	AHTD	LONOKE	13	060778

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	613,916.9029	
Easting (M)	422,384.2620	
Elevation (M)*	61.122	
Northing (SFT)	2,014,159.0389	
Easting (SFT)	1,385,772.3662	
Elevation (SFT)*	200.531	

Convergence Angle	0	8	11.6665201
Scale Factor	0.999966238		
Elevation Adjust. Factor	0.9999904081		
Combined Adjust. Factor	0.9999566464		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	35	42.3180348
Longitude	91	45	21.5388576
Ellipsoid Height (M):	34.674		
Geoid Height (M):	-26.448		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 5.99 KM (3.72 MI) TO THE STATION ON THE RIGHT SET IN THE CENTER OF A ROAD ON TOP OF A NORTH-SOUTH RINNING LEVEE. THE STATION IS 16.80 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 2.05 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430009A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	420009
Geodetic Azimuth	0 52 52.792557
Grid Azimuth	0 44 41.127275

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ALMYPORT
Ref Mon # 3	AHTD LR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430010	1/19/1999	AHTD	LONOKE	13	060778

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,481.0240	
Easting (M)	422,440.7100	
Elevation (M)*	62.567	
Northing (SFT)	2,025,852.3262	
Easting (SFT)	1,385,957.5627	
Elevation (SFT)*	205.272	

Convergence Angle	0	8	13.0935333
Scale Factor	0.999971876		
Elevation Adjust. Factor	0.9999901813		
Combined Adjust. Factor	0.9999620576		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	37	37.9793532
Longitude	91	45	18.9892116
Ellipsoid Height (M):	36.066		
Geoid Height (M):	-26.501		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 9.40 KM (5.84 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.07 METERS EAST OF THE CENTER OF STATE HIGHWAY 13, 13.02 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE ROAD, 1.44 METERS WEST OF THE CENTER OF A ROAD ON TOP OF A LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	430010A
Geodetic Azimuth	181 27 04.77292
Grid Azimuth	181 18 51.67683

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ALMYPORT
Ref Mon # 3	AHTD LR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430010A	1/19/1999	AHTD	LONOKE	13	060778

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	616,874.6540	
Easting (M)	422,426.7970	
Elevation (M)*	62.185	
Northing (SFT)	2,023,862.9273	
Easting (SFT)	1,385,911.9165	
Elevation (SFT)*	204.019	

Convergence Angle	0	8	12.7559914	
Scale Factor	0.999970895			
Elevation Adjust. Factor	0.9999902412			
Combined Adjust. Factor	0.9999611365			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	37	18.3021204	
Longitude	91	45	19.5922980	
Ellipsoid Height (M):	35.693			
Geoid Height (M):	-26.492			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 8.79 KM (5.46 MI) TO THE STATION ON THE RIGHT SET WEST OF THE EXTENDED CENTER OF A EAST-WEST RUNNING LEVEE ROAD. THE STATION IS 18.35 METERS EAST OF THE CENTER OF STATE HIGHWAY 13, 2.00 METERS WEST OF THE CENTER OF A NORTH-SOUTH RUNNING LEVEE ROAD AND 1.48 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	430010
Geodetic Azimuth	1 27 04.430265
Grid Azimuth	1 18 51.676833

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ALMYPORT
Ref Mon # 3	AHTD LR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430011	1/19/1999	AHTD	LONOKE	13	060778

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	624,488.3750	
Easting (M)	422,521.7510	
Elevation (M)*	65.241	
Northing (SFT)	2,048,842.2770	
Easting (SFT)	1,386,223.4447	
Elevation (SFT)*	214.045	

Convergence Angle	0	8	15.2439450
Scale Factor	0.999983881		
Elevation Adjust. Factor	0.9999897617		
Combined Adjust. Factor	0.9999736428		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	41	25.3774032
Longitude	91	45	15.1470684
Ellipsoid Height (M):	38.628		
Geoid Height (M):	-26.613		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 15.93 KM (9.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 13 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430011 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	56	31.10	102.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	430011A
Geodetic Azimuth	3 48 49.973815
Grid Azimuth	3 40 34.737297

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ALMYPORT
Ref Mon # 3	AHTD LR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430011A	1/19/1999	AHTD	LONOKE	13	060778

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	625,087.3220
Easting (M)	422,560.2350
Elevation (M)*	67.594
Northing (SFT)	2,050,807.3223
Easting (SFT)	1,386,349.7043
Elevation (SFT)*	221.765

Convergence Angle	0	8	16.1218673
Scale Factor			0.999984963
Elevation Adjust. Factor			0.9999893924
Combined Adjust. Factor			0.9999743556

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	41	44.8113444
Longitude	91	45	13.5784836
Ellipsoid Height (M):	40.971		
Geoid Height (M):	-26.623		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 AND U.S. HIGHWAY 165, LOCATED IN HUMNOKE, GO NORTH ON STATE HIGHWAY 13 FOR 16.53 KM (10.27 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 13 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430011A 1999" SET ON TO OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	4	22.67	74.4
MK # 2	POWER POLE WITH METER	159	29.75	97.6
MK # 3	COMBINATION POLE	175	31.50	103.3

AZ Mark Station	430011
Geodetic Azimuth	183 48 50.86661
Grid Azimuth	183 40 34.73730

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ALMYPORT
Ref Mon # 3	AHTD LR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430012	3/3/1999	AHTD	LONOKE	5	001748, 060906

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	77,011.5279	0.0020
Easting (M)	393,626.6285	0.0020
Elevation (M)*	125.004	
Northing (SFT)	252,661.9878	
Easting (SFT)	1,291,423.3637	
Elevation (SFT)*	410.117	

Convergence Angle	0	2	26.3044936
Scale Factor			0.999982830
Elevation Adjust. Factor			0.9999803832
Combined Adjust. Factor			0.9999632135

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	1	38.9217072
Longitude	92	4	11.4193956
Ellipsoid Height:			97.759
Grid Northing (Meters)			77,012.0790
Grid Easting (Meters)			393,626.7930

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	1	38.9038188	
Longitude	92	4	11.4258684	
Ellipsoid Height (M):			97.609	0.0080
Geoid Height (M):			-27.358	0.0080

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 319, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF EL PASO, GO SOUTH ON STATE HIGHWAY 5 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.37 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 11.63 METERS EAST OF THE CENTER OF STATE HIGHWAY 5 AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	430012A
Geodetic Azimuth	213 47 04.97018
Grid Azimuth	213 49 31.30050

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, ARSC

Comments

SUPERCEDED GEOID HT. = 27.245m
SUPERCEDED REF. MONUMENTS WERE 430002 & 430003
**********UPDATED STATIC DERIVED ELEV. IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR & ARSC

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430012A	3/3/1999	AHTD	LONOKE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	76,729.9391	
Easting (M)	393,437.7360	
Elevation (M)*	114.823	
Northing (SFT)	251,738.1419	
Easting (SFT)	1,290,803.6389	
Elevation (SFT)*	376.715	

Convergence Angle	0	2	30.6359103
Scale Factor	0.999983258		
Elevation Adjust. Factor	0.9999819809		
Combined Adjust. Factor	0.9999652392		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	1	29.7617916
Longitude	92	4	18.8694552
Ellipsoid Height (M):	87.582		
Geoid Height (M):	-27.241		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 319, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTH OF EL PASO, GO SOUTH ON STATE HIGHWAY 5 FOR 3.88 KM (2.41 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.40 METERS WEST OF THE CENTER OF STATE HIGHWAY 5 AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430012A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	430012
Geodetic Azimuth	33 47 00.694220
Grid Azimuth	33 49 31.300501

Area Reference Monuments (used for Processing)

Ref Mon # 1	430002
Ref Mon # 2	430003
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430013	11/14/2000	AHTD	LONOKE	89	060897

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	51,185.8712	
Easting (M)	407,813.4400	
Elevation (M)*	72.330	
Northing (SFT)	167,932.3124	
Easting (SFT)	1,337,967.9277	
Elevation (SFT)*	237.303	

Convergence Angle	0	2	58.8480566
Scale Factor			1.000030155
Elevation Adjust. Factor			0.9999886492
Combined Adjust. Factor			1.0000188039

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	47	40.8217344
Longitude	91	54	52.6476636
Ellipsoid Height (M):	45.603		
Geoid Height (M):	-26.727		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 89 AND I-40, LOCATED ON THE NORTHEAST SIDE OF LONOKE, GO SOUTH ON STATE HIHGWAY 89 FOR 0.98 KM (0.61 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.89 METERS SOUTH OF THE CENTER OF A PAVED DRIVEWAY, 13.65 METERS NORTH OF THE CENTER OF A PAVED DRIVEWAY, 10.80 METERS WEST OF THE CENTER OF STATE HIGHWAY 89, 5.50 METERS SOUTHEAST OF A WATER METERS COVER AND 0.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 550.979 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CMP	31	11.39	37.4
MK # 2	NORTH END CMP	197	9.60	31.5
MK # 3	END OF A PIPE FENCE	287	1.25	4.1

AZ Mark Station	430013A
Geodetic Azimuth	3 42 53.189009
Grid Azimuth	3 39 54.333059

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM U.S.C.&G.S. BENCH MARK J 107. Station Elevation was confirmed on 2/26/07 by crew S5111 from J 107.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430013A	11/14/2000	AHTD	LONOKE	89	060897

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	51,735.7370	
Easting (M)	407,848.6619	
Elevation (M)*	72.575	
Northing (SFT)	169,736.3305	
Easting (SFT)	1,338,083.4849	
Elevation (SFT)*	238.106	

Convergence Angle	0	2	59.6652419
Scale Factor	1.000028977		
Elevation Adjust. Factor	0.9999886107		
Combined Adjust. Factor	1.0000175874		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	47	58.6638420
Longitude	91	54	51.2433216
Ellipsoid Height (M):	45.837		
Geoid Height (M):	-26.738		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 89 AND I-40, LOCATED ON THE NORTHEAST SIDE OF LONOKE, GO SOUTH ON STATE HIHGWAY 89 FOR 0.40 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.80 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 12.60 METERS EAST OF THE CENTER OF STATE HIGHWAY 89, 9.00 METERS SOUTH OF THE EXTENDED CENTER OF A GRAVEL ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 550.979 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END CMP	202	9.58	31.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	430013
Geodetic Azimuth	183 42 53.99043
Grid Azimuth	183 39 54.33306

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM U.S.C.&G.S. BENCH MARK J 107. Station Elevation was confirmed on 2/26/07 by crew S5111 from J 107.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430014	1/9/2003	AHTD	LONOKE	67	061072,061383

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	70,072.0351	
Easting (M)	395,659.7980	
Elevation (M)*	82.752	
Northing (SFT)	229,894.6685	
Easting (SFT)	1,298,093.8539	
Elevation (SFT)*	271.495	

Convergence Angle	0	1	39.5550144
Scale Factor	0.999993942		
Elevation Adjust. Factor	0.9999870137		
Combined Adjust. Factor	0.9999809558		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	57	53.7552108
Longitude	92	2	51.0863784
Ellipsoid Height (M):	55.572		
Geoid Height (M):	-27.100		

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF U.S. STATE HIGHWAY 67 AND 89 (EXIT 19 ON 67), SOUTH WEST OF CABOT, GO SOUTH ON HIGHWAY 67 1.25 MILES TO THE STATION ON THE LEFT IN THE MEDIAN NORTH OF THE BRIDGE AND 6.15 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "430014 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH EAST OF SOUTH BOUND LANE BRIDGE		6.15	20.2
MK # 2	NORTH WEST OF NORTH BOUND LANE BRIDGE		6.55	21.5
MK # 3				

AZ Mark Station	430014A
Geodetic Azimuth	40 22 34
Grid Azimuth	40 24 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	480016, Butler
Ref Mon # 3	Russport

Comments

ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430014A	1/9/2003	AHTD	LONOKE	67	61072,061383,061509, 06137

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	70,639.1320	
Easting (M)	396,142.4990	
Elevation (M)*	84.849	
Northing (SFT)	231,755.2189	
Easting (SFT)	1,299,677.5155	
Elevation (SFT)*	278.375	

Convergence Angle	0	1	28.4884605
Scale Factor			0.999992989
Elevation Adjust. Factor			0.9999866846
Combined Adjust. Factor			0.9999796737

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	58	12.1647540	
Longitude	92	2	32.0683848	
Ellipsoid Height (M):	57.658			
Geoid Height (M):	-27.109			

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 67 AND 89 (EXIT19 ON 67) SOUTH WEST OF CABOT, GO SOUTH ON 67 0.80 MILE TO THE STATION ON THE LEFT NEXT TO THE EAST RIGHT OF WAY FENCE AND NORTH WEST 1.45 METERS FROM A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "430014A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AHTD TRAFFIC COUNTER BOX	242	24.10	79.1
MK # 2	POWER POLE	211	26.15	85.8
MK # 3	EDGE OF CONC ON NORTH BOUND LANE		24.75	81.2

AZ Mark Station	430014
Geodetic Azimuth	220 22 45
Grid Azimuth	220 24 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	480016, Butler
Ref Mon # 3	Russport

Comments

ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430015	1/15/2003	AHTD	LONOKE	89	061085

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	71,434.8811
Easting (M)	387,927.4750
Elevation (M)*	
Northing (SFT)	234,365.9391
Easting (SFT)	1,272,725.3909
Elevation (SFT)*	
Convergence Angle	0 4 36.9599064
Scale Factor	0.999991678
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 58 37.7508036
Longitude	92 7 55.9586208
Ellipsoid Height (M):	80.234
Geoid Height (M):	-27.174

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 89 AND HIGHWAY 107, NORTH OF NORTH LITTLE ROCK, GO SOUTH ON HIGHWAY 89 0.70 MILES TO THE STATION ON THE RIGHT, 5.50 METERS SOUTH OF THE CENTER OF THE HIGHWAY, EAST 10.35 METERS OF A GRAVEL DRIVE AND NORTH 6.60 METERS OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "430015 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	138	8.90	29.2
MK # 2	POWER POLE WITH GUY	195	29.15	95.6
MK # 3				

AZ Mark Station	430015A
Geodetic Azimuth	278 14 41
Grid Azimuth	278 19 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	BUTLER

Comments

ELEV DETERMINED IN JOB 061085

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430015A	1/15/2003	AHTD	LONOKE	89	061085

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	71,515.1251
Easting (M)	387,378.8650
Elevation (M)*	
Northing (SFT)	234,629.2063
Easting (SFT)	1,270,925.4929
Elevation (SFT)*	
Convergence Angle	0 4 49.5483237
Scale Factor	0.999991546
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 58 40.3302864
Longitude	92 8 17.5919532
Ellipsoid Height (M):	85.068
Geoid Height (M):	-27.180

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 107 AND HIGHWAY 89, NORTH OF NORTH LITTLE ROCK, GO SOUTH ON HIGHWAY 89 0.30 MILES TO THE STATION ON THE RIGHT, SOUTH 6.45 METERS OF THE CENTER OF THE HIGHWAY, EAST 36.0 METERS OF A GRAVEL DRIVE AND 6.95 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "430015A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE AND TELEPHONE RIS	141	10.10	33.1
MK # 2				
MK # 3				

AZ Mark Station	430015
Geodetic Azimuth	98 14 28
Grid Azimuth	98 19 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	BUTLER

Comments

ELEV DETERMINED IN JOB 061085

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430016	8/6/2003	AHTD	LONOKE	67	061102,061383,061384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	74,294.6711
Easting (M)	400,542.7820
Elevation (M)*	82.029
Northing (SFT)	243,748.4334
Easting (SFT)	1,314,114.1106
Elevation (SFT)*	269.123
Convergence Angle	0 0 12.4561157
Scale Factor	0.999987037
Elevation Adjust. Factor	0.9999871272
Combined Adjust. Factor	0.9999741644

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 0 10.8140544
Longitude	91 59 38.5940292
Ellipsoid Height (M):	54.806
Geoid Height (M):	-27.162

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 67 AND EXIT 22 (HIGHWAY 305), WEST OF AUSTIN, GO SOUTH ON 67 0.4 MILES TO THE STATION IN THE MEDIAN, 12.85 METERS FROM THE SOUTH BOUND CENTERLINE, 12.80 METERS FROM THE NORTH BOUND CENTERLINE AND SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430016 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	430016A
Geodetic Azimuth	231 23 28
Grid Azimuth	231 23 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2 CORS
Ref Mon # 3	430014

Comments

ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430016A	8/6/2003	AHTD	LONOKE	67	61102,061383,061102, 06137

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	73,724.7720	
Easting (M)	399,829.1960	
Elevation (M)*	75.956	
Northing (SFT)	241,878.6895	
Easting (SFT)	1,311,772.9539	
Elevation (SFT)*	249.200	

Convergence Angle	0	0	3.9194733
Scale Factor			0.999987943
Elevation Adjust. Factor			0.9999880801
Combined Adjust. Factor			0.9999760233

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	34	59	52.3211892	
Longitude	92	0	6.7356576	
Ellipsoid Height (M):	48.753			
Geoid Height (M):	-27.155			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 67 AND EXIT 22 (HIGHWAY 305), WEST OF AUSTIN, GO SOUTH ON 67 0.9 MILES TO THE STATION IN THE MEDIAN, 12.85 METERS FROM THE SOUTH BOUND CENTERLINE, 12.90 METERS FROM THE NORTH BOUND CENTERLINE AND SOUTHEAST 0.50 METERS FROM A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430016A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	430016
Geodetic Azimuth	51 23 12
Grid Azimuth	51 23 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2 CORS
Ref Mon # 3	430014

Comments

ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430017	8/6/2003	AHTD	LONOKE	38	061102,061383,061384,061102

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	71,974.6921	
Easting (M)	400,346.6790	
Elevation (M)*	78.991	
Northing (SFT)	236,136.9690	
Easting (SFT)	1,313,470.7294	
Elevation (SFT)*	259.156	

Convergence Angle	0	0	7.9537625
Scale Factor			0.999990776
Elevation Adjust. Factor			0.9999876039
Combined Adjust. Factor			0.9999783800

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	58	55.5305736	
Longitude	91	59	46.3313724	
Ellipsoid Height (M):	51.805			
Geoid Height (M):	-27.119			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND HIGHWAY 89, IN CABOT, GO NORTH ON 38 1.3 MILE TO THE STATION ON THE LEFT, IN FRONT OF MIDDLE SCHOOL NORTH, NORTH 12.60 OF THE CENTERLINE AND 0.50 METERS SOUTH OF A WITNSS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430017 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	265	15.45	50.7
MK # 2	GUY	287	16.25	53.3
MK # 3	NORTHAST CORNER OF MIDDLE SHOOL SIGN	275	29.30	96.1

AZ Mark Station	430017A
Geodetic Azimuth	92 17 48
Grid Azimuth	92 17 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2 CORS
Ref Mon # 3	430014

Comments

ELEV. ESTABLISHED BY DIGITAL LEVELS FROM 1ST ORDER NGS BM RV 137 IN JULY 2012 BY S5114. ELEVATION UPDATED FROM 259.1880 TO 259.1560 BASED ON LEVEL RUN FROM NGS BM RV 135 AND GPS MON 430016 BY GARVER DURING JOB 061102 IN FEBRUARY 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430017A	8/6/2003	AHTD	LONOKE	38	02,061261,061334,061383.06

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	71,947.9900	
Easting (M)	401,013.1490	
Elevation (M)*	87.109	
Northing (SFT)	236,049.3639	
Easting (SFT)	1,315,657.3063	
Elevation (SFT)*	285.789	

Convergence Angle	0	0	23.2443370
Scale Factor	0.999990819		
Elevation Adjust. Factor	0.9999863300		
Combined Adjust. Factor	0.9999771491		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	58	54.6624516
Longitude	91	59	20.0543532
Ellipsoid Height (M):	59.934		
Geoid Height (M):	-27.116		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 89 AND HIGHWAY 38, IN CABOT, GO NORTH ON HIGHWAY 38 1.7 MILES TO THE STAION ON THE RIGHT, 3.40 METERS EAST OF A GRAVEL DRIVE, SOUTH 10.30 METERS OF THE CENTERLINE OF 38 AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "430017A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	89	22.10	72.5
MK # 2	UNITED METHODIST CHURCH SIGN	255	5.45	17.9
MK # 3	TELEPHONE POLE	264	22.60	74.1

AZ Mark Station	430017
Geodetic Azimuth	272 18 03
Grid Azimuth	272 17 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2 CORS
Ref Mon # 3	430014

Comments

ELEVATION BASED ON LEVEL RUN BY GARVER FROM NGS BM RV 135 AND GPS MON 430016 DURING JOB 061102 IN FEBRUARY 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430018	2/14/2007	AHTD	LONOKE	89	060897

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	52,034.4890	
Easting (M)	407,846.6910	
Elevation (M)*	75.907	
Northing (SFT)	170,716.4860	
Easting (SFT)	1,338,077.0187	
Elevation (SFT)*	249.038	

Convergence Angle	0	2	59.6260811
Scale Factor			1.000028341
Elevation Adjust. Factor			0.9999880879
Combined Adjust. Factor			1.0000164285

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	48	8.3583792
Longitude	91	54	51.3106200
Ellipsoid Height (M):	49.149		
Geoid Height (M):	-26.743		

Location Description

To reach the station from the junction of highways 89 and 31 in Lonoke go north on Hwy-89 for 2.0 miles to the station on the right just before crossing over the interstate 16.6 feet east of the center of hwy-89 and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped " 430018 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	End of guard rail	346	1.89	6.2
MK # 2				
MK # 3				

AZ Mark Station	430018A
Geodetic Azimuth	280 10 03
Grid Azimuth	280 07 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	430013
Ref Mon # 2	Q 205
Ref Mon # 3	ARLR

Comments

3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430018A	2/14/2007	AHTD	LONOKE	I 40	060897

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	52,121.3719	
Easting (M)	407,359.7960	
Elevation (M)*	72.666	
Northing (SFT)	171,001.5343	
Easting (SFT)	1,336,479.5974	
Elevation (SFT)*	238.405	

Convergence Angle	0	2	48.4817333
Scale Factor	1.000028155		
Elevation Adjust. Factor	0.9999885965		
Combined Adjust. Factor	1.0000167512		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	48	11.1910572
Longitude	91	55	10.4623032
Ellipsoid Height (M):	45.913		
Geoid Height (M):	-26.743		

Location Description

To reach the station from the highway 89 bridge over I 40 northwest of Lonoke go west on I 40 for 0.30 miles to the station mark on the south side of the interstate near the right of way fence. The station mark is a 2 1/2 inch cap stamped "430018A 2007" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface. The station is 7.2 feet north of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Underground cable marker	265	20.21	66.3
MK # 2	Concrete drain pipe	343	26.70	87.6
MK # 3				

AZ Mark Station	430018
Geodetic Azimuth	100 09 52
Grid Azimuth	100 07 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	430013
Ref Mon # 2	Q 205
Ref Mon # 3	ARLR

Comments

3-wire levels ran by crew S5111 on 2/26/07 from NGS mark J 107.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430019	12/14/2020	ARDOT	LONOKE	381	06X122

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	632,746.8586	0.0030
Easting (M)	417,659.4674	0.0030
Elevation (M)*		

Northing (SFT)	2,075,936.9853	
Easting (SFT)	1,370,271.1026	
Elevation (SFT)*		

Convergence Angle	0	6	28.6668293
Scale Factor	0.999999616		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	45	53.7153408	
Longitude	91	48	25.5685248	
Ellipsoid Height (M):	44.275			0.0050
Geoid Height (M):	-26.813			0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 381, EAST OF LONOKE, GO SOUTH ON STATE HIGHWAY 381 1.0 MILE TO THE MARK ON THE LEFT, EAST 38.8' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430019 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER WELL	159	7.19	23.6
MK # 2	COMBINATION POLE W/LIGHT	248	27.16	89.1
MK # 3				

AZ Mark Station	430019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430019A	12/14/2020	ARDOT	LONOKE	381	06X122

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	633,222.7359	0.0030
Easting (M)	417,671.2183	0.0030
Elevation (M)*		
Northing (SFT)	2,077,498.2594	
Easting (SFT)	1,370,309.6554	
Elevation (SFT)*		

Convergence Angle	0	6	28.9452020
Scale Factor	1.000000573		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	46	9.1573104	
Longitude	91	48	25.0711560	
Ellipsoid Height (M):	43.401			0.0050
Geoid Height (M):	-26.821			0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 381, EAST OF LONOKE, GO SOUTH ON STATE HIGHWAY 381 0.7 MILES TO THE MARK ON THE LEFT, EAST 35.2' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430019A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS TEST STATION	256	18.23	59.8
MK # 2	POWER POLE	287	76.90	252.3
MK # 3				

AZ Mark Station	430019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430020	12/14/2020	ARDOT	LONOKE	31	06X131

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	606,114.2860	0.0020
Easting (M)	411,536.4749	0.0020
Elevation (M)*		
Northing (SFT)	1,988,559.9533	
Easting (SFT)	1,350,182.5847	
Elevation (SFT)*		

Convergence Angle	0	4	13.1866971	
Scale Factor	0.999955020			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	31	29.7323220	
Longitude	91	52	27.6310344	
Ellipsoid Height (M):	39.826	0.0090		
Geoid Height (M):	-26.348	0.0090		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 31, NORTH OF COY, GO SOUTH ON STATE HIGHWAY 31 1.45 MILES TO THE MARK ON THE RIGHT, WEST 22.4' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430020 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	41	21.79	71.5
MK # 2				
MK # 3				

AZ Mark Station	430020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430020A	12/14/2020	ARDOT	LONOKE	31	06X131

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	606,481.1817	0.0020
Easting (M)	411,547.0258	0.0020
Elevation (M)*		
Northing (SFT)	1,989,763.6770	
Easting (SFT)	1,350,217.2005	
Elevation (SFT)*		

Convergence Angle	0	4	13.4281469
Scale Factor	0.999955515		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	31	41.6390448
Longitude	91	52	27.1996356
Ellipsoid Height (M):	38.708	0.0090	
Geoid Height (M):	-26.353	0.0090	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 31, NORTH OF COY, GO SOUTH ON STATE HIGHWAY 31 1.2 MILES TO THE MARK ON THE RIGHT, WEST 26.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430020A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	130	21.43	70.3
MK # 2	TELEPHONE BOX	40	28.38	93.1
MK # 3				

AZ Mark Station	430020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430021	12/14/2020	ARDOT	LONOKE	13	06X282

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	602,265.6696	0.0020
Easting (M)	422,200.1675	0.0020
Elevation (M)*		
Northing (SFT)	1,975,933.2843	
Easting (SFT)	1,385,168.3829	
Elevation (SFT)*		

Convergence Angle	0	8	7.0186767
Scale Factor	0.999950004		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	29	24.2086236
Longitude	91	45	29.8431648
Ellipsoid Height (M):	33.334	0.0100	
Geoid Height (M):	-26.399	0.0100	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 13, IN HOMNOKE, GO SOUTH ON STATE HIGHWAY 13 3.55 MILES TO THE MARK ON THE LEFT, EAST 24.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430021 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	164	17.43	57.2
MK # 2				
MK # 3				

AZ Mark Station	430021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430021A	12/14/2020	ARDOT	LONOKE	13	06X282

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	602,743.9043	0.0020
Easting (M)	422,187.5286	0.0020
Elevation (M)*		
Northing (SFT)	1,977,502.2927	
Easting (SFT)	1,385,126.9167	
Elevation (SFT)*		

Convergence Angle	0	8	6.7661692	
Scale Factor	0.999950604			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	29	39.7302396	
Longitude	91	45	30.2943204	
Ellipsoid Height (M):	34.219		0.0100	
Geoid Height (M):	-26.405		0.0100	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND STATE HIGHWAY 13, IN HOMNOKE, GO SOUTH ON STATE HIGHWAY 13 3.25 MILES TO THE MARK ON THE RIGHT, WEST 49.3' OF THE C/L OF THE HIGHWAY AND 19.8' SOUTH OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "430021A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CMP	63	7.13	23.4
MK # 2	COMBINATION POLE W/2 GUYS	81	26.12	85.7
MK # 3				

AZ Mark Station	430021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430022	3/16/2021	ARDOT	LONOKE	5	060906

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	76,730.4871	0.0020
Easting (M)	393,437.6619	0.0030
Elevation (M)*		

Northing (SFT)	251,739.9398	
Easting (SFT)	1,290,803.3958	
Elevation (SFT)*		

Convergence Angle	0	2	30.6376217
Scale Factor			0.999983257
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	1	29.7795720
Longitude	92	4	18.8723964
Ellipsoid Height (M):	88.173		0.0080
Geoid Height (M):	-27.355		0.0080

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 319, LOCATED ABOUT 5.00 MI) SOUTH OF EL PASO, GO SOUTH ON STATE HIGHWAY 5 FOR 2.41 MI TO THE STATION ON THE RIGHT. THE STATION IS 46' WEST OF THE CENTER OF STATE HIGHWAY 5. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "430022 2021" SET ON TOP OF AN IRON ROD 4' LONG AND DRIVEN BELOW SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE	330	4.63	15.2
MK # 2	18" CMP	175	3.11	10.2
MK # 3				

AZ Mark Station	430012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430023	6/6/2022	AHTD S5101	LONOKE	d Lonoke	061677, 061759

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	51,074.3690	0.0010
Easting (M)	394,614.5469	0.0010
Elevation (M)*	73.875	

Northing (SFT)	167,566.4923	
Easting (SFT)	1,294,664.5593	
Elevation (SFT)*	242.370	

Convergence Angle	0	2	3.2704195
Scale Factor			1.000030391
Elevation Adjust. Factor			0.9999884068
Combined Adjust. Factor			1.0000187974

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	47	37.2612012
Longitude	92	3	31.8415608
Ellipsoid Height (M):	47.094		0.0050
Geoid Height (M):	-26.750		0.0000

Location Description

To reach from the intersection of Interstate 40 and South Kerr Road, Lonoke County Road Number 501 (Exit 165) , Lonoke County Arkansas. Travel North along South Kerr Road, Lonoke County Road Number 501, 0.15 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430023, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 28 ft. east of the centerline of South Kerr Road, Lonoke County Road Number 501 and 39 ft. South of the centerline of a gravel driveway leading East and 5 ft west of a 6 ft chainlink fence.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone Box	195	8.84	29.0
MK # 2	Power Pole	260	16.45	54.0
MK # 3	Light Pole	140	11.89	39.0

AZ Mark Station	430023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430023A	6/6/2022	AHTD S5101	LONOKE	d Lonoke	061677 & 061759

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	51,549.1059	0.0010
Easting (M)	394,628.6662	0.0010
Elevation (M)*		

Northing (SFT)	169,124.0249	
Easting (SFT)	1,294,710.8824	
Elevation (SFT)*		

Convergence Angle	0	2	2.9537137
Scale Factor	1.000029372		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	47	52.6666488
Longitude	92	3	31.2972984
Ellipsoid Height (M):	46.706	0.0050	
Geoid Height (M):	-26.761	0.0000	

Location Description

to reach From the intersection of Interstate 40 and South Kerr Road, Lonoke County Road Number 501 (Exit 165) , Lonoke County Arkansas. Travel North along South Kerr Road, Lonoke County Road Number 501, 0.45 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430023A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 29 ft. east of the centerline of South Kerr Road, Lonoke County Road Number 501 and 32 ft. North of the centerline of a gravel driveway entrance leading east to a field road.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Irrigation Well Head	95	10.36	34.0
MK # 2	North End of 18" Couragated Metal Pipe	200	5.79	19.0
MK # 3				

AZ Mark Station	430023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430024	6/26/2022	AHTD S5101	LONOKE	nterstate 4	061677 & 061759

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	51,511.7664	0.0010
Easting (M)	397,505.0875	0.0010
Elevation (M)*	71.308	

Northing (SFT)	169,001.5203	
Easting (SFT)	1,304,147.9412	
Elevation (SFT)*	233.950	

Convergence Angle	0	0	57.1101191
Scale Factor	1.000029450		
Elevation Adjust. Factor	0.9999888096		
Combined Adjust. Factor	1.0000182592		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	47	51.4957272
Longitude	92	1	38.1443628
Ellipsoid Height (M):	44.505		0.0050
Geoid Height (M):	-26.767		0.0000

Location Description

To reach from The intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel West along Interstate 40, 1.9 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430024, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is in the center of the median 76 ft South of the South edge of the South sholder of Westbound Interstate 40 and 76 ft North of the North edge of the North sholder of Eastbound Interstate 40. 0.1 miles West of the West bridge end over Bayou Meto.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	West end of a Guardrail	111	32.31	106.0
MK # 2				
MK # 3				

AZ Mark Station	430024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430024A	6/26/2022	AHTD S5101	LONOKE	nterstate 4	061677 & 061759

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	51,721.2612	0.0010
Easting (M)	398,053.3026	0.0010
Elevation (M)*	73.255	

Northing (SFT)	169,688.8378	
Easting (SFT)	1,305,946.5436	
Elevation (SFT)*	240.336	

Convergence Angle	0	0	44.5621678
Scale Factor	1.000029002		
Elevation Adjust. Factor	0.9999885041		
Combined Adjust. Factor	1.0000175058		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	47	58.2982008
Longitude	92	1	16.5805716
Ellipsoid Height (M):	46.439		0.0050
Geoid Height (M):	-26.773		0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel West along Interstate 40, 1.5 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430024A , 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is in the center of the median 75 ft South of the South edge of the South sholder of Westbound Interstate 40 and 75 ft North of the North edge of the North sholder of Eastbound Interstate 40. 0.2 miles East of the East bridge end over Bayou Meto.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	430024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430025	6/6/2022	AHTD S5101	LONOKE	State Hig	61759, 061677

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	51,040.0829	0.0010
Easting (M)	400,487.5001	0.0010
Elevation (M)*	75.878	
Northing (SFT)	167,454.0053	
Easting (SFT)	1,313,932.7399	
Elevation (SFT)*	248.943	

Convergence Angle	0	0	11.1586010	
Scale Factor	1.000030461			
Elevation Adjust. Factor	0.9999880924			
Combined Adjust. Factor	1.0000185531			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	47	36.2004108	
Longitude	91	59	40.8238224	
Ellipsoid Height (M):	49.077		0.0050	
Geoid Height (M):	-26.768		0.0000	

Location Description

The intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel South along State Highway 15, 0.6 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430025, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 40 feet West of the centerline of Arkansas State Highway 15, 24 feet North of the center of a gravel driveway.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North end of a 36" Corugated Plastic Culvert	263	13.41	44.0
MK # 2	North end of a 36" corugated Plastic Culvert	205	32.92	108.0
MK # 3				

AZ Mark Station	430025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430025A	6/6/2022	AHTD (S5101)	LONOKE	State Hig	61759, 061677

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	51,531.7600	0.0010
Easting (M)	400,492.9095	0.0010
Elevation (M)*	76.924	
Northing (SFT)	169,067.1159	
Easting (SFT)	1,313,950.4873	
Elevation (SFT)*	252.375	

Convergence Angle	0	0	11.2830343
Scale Factor	1.000029406		
Elevation Adjust. Factor	0.9999879283		
Combined Adjust. Factor	1.0000173339		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	47	52.1552868
Longitude	91	59	40.6099824
Ellipsoid Height (M):	50.108		0.0050
Geoid Height (M):	-26.778		0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 15 (Exit 169) , Lonoke County Arkansas. Travel South along State Highway 15, 0.3 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430025A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 37 feet West of the centerline of Arkansas State Highway 15, 153 feet South of the centerline a paved road leading West to Remington Ammunition, and 111 feet North of the center of a gravel field entrance.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East End of a Headwall	199	30.48	100.0
MK # 2	East Edge of a Sign	347	33.52	110.0
MK # 3	Combination Pole	114	28.04	92.0

AZ Mark Station	430025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430026	6/6/2022	AHTD (S5101)	LONOKE	State Hig	61759, 061677

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	52,587.8600	0.0010
Easting (M)	404,591.8235	0.0010
Elevation (M)*	74.390	
Northing (SFT)	172,532.0040	
Easting (SFT)	1,327,398.3409	
Elevation (SFT)*	244.061	

Convergence Angle	0	1	45.1222822
Scale Factor	1.000027163		
Elevation Adjust. Factor	0.9999883259		
Combined Adjust. Factor	1.0000154886		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	48	26.3881404
Longitude	91	56	59.3462112
Ellipsoid Height (M):	47.524		0.0050
Geoid Height (M):	-26.820		0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel North along State Highway 89, 2.1 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430026, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 78 feet West of the centerline of Arkansas State Highway 89, 34 feet East of the centerline of Des Lauriers road and 9 feet North of the center of a gravel driveway.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	36	8.53	28.0
MK # 2	East End of a Headwall	271	14.93	49.0
MK # 3				

AZ Mark Station	430026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430026A	6/6/2022	AHTD (S5101)	LONOKE	State Hig	61759, 061677

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	53,220.2592	0.0010
Easting (M)	404,602.6119	0.0010
Elevation (M)*	75.046	
Northing (SFT)	174,606.8004	
Easting (SFT)	1,327,433.7359	
Elevation (SFT)*	246.213	

Convergence Angle	0	1	45.3766603
Scale Factor			1.000025831
Elevation Adjust. Factor			0.9999882230
Combined Adjust. Factor			1.0000140537

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	48	46.9092888	
Longitude	91	56	58.9090596	
Ellipsoid Height (M):			48.163	0.0050
Geoid Height (M):			-26.832	0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel North along State Highway 89, 2.5 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430026A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 37 feet East of the centerline of Arkansas State Highway 89 and 38 feet South of the centerline of a gravel field entrance.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South End 30 in Corugated Metal Pipe	348	10.36	34.0
MK # 2				
MK # 3				

AZ Mark Station	430026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430027	6/6/2022	AHTD (S5101)	LONOKE	State Hig	61759, 061677

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	51,269.2156	0.0010
Easting (M)	407,815.9398	0.0010
Elevation (M)*	72.498	
Northing (SFT)	168,205.7515	
Easting (SFT)	1,337,976.1292	
Elevation (SFT)*	237.855	

Convergence Angle	0	2	58.9069319
Scale Factor	1.000029976		
Elevation Adjust. Factor	0.9999886228		
Combined Adjust. Factor	1.0000185984		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	47	43.5261840	
Longitude	91	54	52.5464856	
Ellipsoid Height (M):	45.630			0.0060
Geoid Height (M):	-26.812			0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 89, 0.6 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430027, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 34 feet West of the centerline of Arkansas State Highway 89 and 5 feet East of a pipe fence corner.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North End 18 in Corugated Metal Pipe	185	9.45	31.0
MK # 2	South End 18 in Corugated Metal Pipe	26	3.66	12.0
MK # 3	Combination Pole	231	1.52	5.0

AZ Mark Station	430027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430027A	6/6/2022	AHTD (S5101)	LONOKE	State Hig	61759, 061677

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	51,813.7138	0.0010
Easting (M)	407,855.4938	0.0010
Elevation (M)*	72.386	
Northing (SFT)	169,992.1594	
Easting (SFT)	1,338,105.8992	
Elevation (SFT)*	237.487	

Convergence Angle	0	2	59.8231884
Scale Factor	1.000028811		
Elevation Adjust. Factor	0.9999886404		
Combined Adjust. Factor	1.0000174510		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	48	1.1939904
Longitude	91	54	50.9718888
Ellipsoid Height (M):	45.514	0.0060	
Geoid Height (M):	-26.822	0.0000	

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 89 (Exit 173) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 89, 0.2 miles to the station on the Left. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430027A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 60 feet East of the centerline of Arkansas State Highway 89 and 35 feet North of the centerline of a paved field entrance.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North End 24 in Corugated Metal Pipe	264		
MK # 2	Power Pole	175		
MK # 3				

AZ Mark Station	430027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430028	6/6/2022	AHTD (S5101)	LONOKE	nterstate 4	61759, 061677

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	52,220.2631	0.0010
Easting (M)	411,406.8710	0.0010
Elevation (M)*	72.739	
Northing (SFT)	171,325.9799	
Easting (SFT)	1,349,757.3759	
Elevation (SFT)*	238.644	

Convergence Angle	0	4	21.1308666	
Scale Factor	1.000027954			
Elevation Adjust. Factor	0.9999885851			
Combined Adjust. Factor	1.0000165387			

Vertical Determined By:	3rd Order - Digital Levels	
Elevation Datum:	NAVD 88	
Geoid Datum:	GEOID18	
Latitude	34 48 14.2633008	
Longitude	91 52 31.2437568	
Ellipsoid Height (M):	45.823	0.0060
Geoid Height (M):	-26.849	0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 31 (Exit 175) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 31, 0.2 miles to Nathan Road (frontage road) on the Left, then travel East along Nathan Road 0.9 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430028, 6/2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 33 feet south of the centerline on Nathan Road and 96 feet West of the centerline of a paved driveway entrance leading South.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	265	22.86	75.0
MK # 2	Power Pole	91	20.42	67.0
MK # 3				

AZ Mark Station	430028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
430028A	6/6/2022	AHTD (S5101)	LONOKE	nterstate 4	61759, 061677

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	52,232.2040	0.0010
Easting (M)	411,911.3649	0.0010
Elevation (M)*	71.589	
Northing (SFT)	171,365.1560	
Easting (SFT)	1,351,412.5363	
Elevation (SFT)*	234.870	

Convergence Angle	0	4	32.6802993	
Scale Factor	1.000027930			
Elevation Adjust. Factor	0.9999887655			
Combined Adjust. Factor	1.0000166952			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	48	14.6296008	
Longitude	91	52	11.3959308	
Ellipsoid Height (M):	44.671			0.0060
Geoid Height (M):	-26.852			0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 31 (Exit 175) in Lonoke, Lonoke County Arkansas. Travel South along State Highway 31, 0.2 miles to Nathan Road (frontage road) on the Left, then travel East along Nathan Road 1.2 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 430028A, 6/2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 40 feet south of the centerline on Nathan Road and 52 feet West of the centerline of a paved driveway leading South to a one story brick residence.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	182	2.74	9.0
MK # 2	West End 36 in Corugated Metal Pipe	69	11.28	37.0
MK # 3	Center of Headwall	279	28.04	92.0

AZ Mark Station	430028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHZ
Ref Mon # 3	ARST

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440001	2/23/1994	AHTD	MADISON	N/A	R90018

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	165,555.6369	
Easting (M)	224,067.9740	
Elevation (M)*	699.916	
Northing (SFT)	543,160.4521	
Easting (SFT)	735,129.6780	
Elevation (SFT)*	2,296.308	

Convergence Angle	-1	7	58.2860089
Scale Factor			0.999943667
Elevation Adjust. Factor			0.9998901724
Combined Adjust. Factor			0.9998338456

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	35	48	35.7270624	
Longitude	93	56	48.5790000	
Ellipsoid Height (M):	671.220			
Geoid Height (M):	-28.696			

Location Description

FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM. BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 8.85 KM (5.50 MILES) TO A "T " JCT. AND CO. RD. NO. 1 ON THE LEFT AND CO. RD. NO. 126 ON THE RIGHT, TURN LEFT ON CO. RD. NO. 1 AND GO 0.97 KM (0.60 MILES) TO THE STATION ON THE RIGHT IN AN EAST-WEST FENCE LINE. THE STATION IS 15.70 METERS WEST OF A FENCE, 23.70 METERS WEST OF THE CENTER OF CO. RD. NO. 1 AND 1.0 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	K-143 USC&GS BM
Geodetic Azimuth	176 58 56.00184
Grid Azimuth	356 58 56.37675

Area Reference Monuments (used for Processing)

Ref Mon # 1	DENNIS
Ref Mon # 2	NELSON
Ref Mon # 3	BIEHL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440002	2/23/1994	AHTD	MADISON	295	R90018

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	169,174.3710
Easting (M)	225,028.1730
Elevation (M)*	490.825
Northing (SFT)	555,032.9155
Easting (SFT)	738,279.9309
Elevation (SFT)*	1,610.315
Convergence Angle	-1 7 37.6833701
Scale Factor	0.999946077
Elevation Adjust. Factor	0.9999229795
Combined Adjust. Factor	0.9998690606

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 50 33.7362396
Longitude	93 56 13.1731404
Ellipsoid Height (M):	462.194
Geoid Height (M):	-28.631

Location Description

FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 4.82 KM (3.0 MILES) TO A MOBILE HOME AND FIELD ROAD ON THE RIGHT, TURN RIGHT (WEST) ONTO THE FIELD ROAD PASSING BY THE MOBILE HOME AND THEN CROSSING A CATTLE GUARD FOR 0.16 KM (0.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.00 METERS NORTHEAST OF THE MAIN DRIVEWAY, 8.00 METERS SOUTHEAST OF A ROAD TO A BARN AND 1.43 METERS SOUTHWEST OF A POWER POLE WITH A WITNESS POST DRIVEN IN FRONT OF IT. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	440002A
Geodetic Azimuth	195 15 16.06603
Grid Azimuth	196 22 53.74253

Area Reference Monuments (used for Processing)

Ref Mon # 1	DENNIS
Ref Mon # 2	NELSON
Ref Mon # 3	BIEHL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440002A	2/23/1994	AHTD	MADISON	295	R90018

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	168,829.9889	
Easting (M)	224,926.9370	
Elevation (M)*	480.471	
Northing (SFT)	553,903.0552	
Easting (SFT)	737,947.7925	
Elevation (SFT)*	1,576.345	

Convergence Angle	-1	7	39.8733020
Scale Factor	0.999945834		
Elevation Adjust. Factor	0.9999246041		
Combined Adjust. Factor	0.9998704422		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	50	22.4995956
Longitude	93	56	16.9365624
Ellipsoid Height (M):	451.834		
Geoid Height (M):	-28.637		

Location Description

FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES LOCATED ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 5.15 KM (3.20 MILES) TO THE STATION ON THE LEFT JUST BEFORE REACHING A CHURCH AND CEMETERY. THE STATION IS 7.40 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 295 AND 0.55 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	25	8.10	26.6
MK # 2	TELEPHONE JUNCTION BOX	205	10.20	33.5
MK # 3	NONE			

AZ Mark Station	440002
Geodetic Azimuth	15 15 13.862383
Grid Azimuth	16 22 53.742529

Area Reference Monuments (used for Processing)

Ref Mon # 1	DENNIS
Ref Mon # 2	NELSON
Ref Mon # 3	BIEHL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440003	2/23/1994	AHTD	MADISON	16	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	173,081.8090	
Easting (M)	227,121.9306	
Elevation (M)*	404.802	
Northing (SFT)	567,852.5684	
Easting (SFT)	745,149.2006	
Elevation (SFT)*	1,328.088	

Convergence Angle	-1	6	50.9022316
Scale Factor			0.999949064
Elevation Adjust. Factor			0.9999364774
Combined Adjust. Factor			0.9998855446

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	52	41.8248012
Longitude	93	54	52.7792436
Ellipsoid Height (M):	376.902		
Geoid Height (M):	-27.900		

Location Description

FROM THE JCT. OF HWY. 16 AND HWY 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO NORTHWEST ON HWY. 16 FOR 0.36 KM (0.22 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.0 METERS NORTHWEST OF A FIELD ENTRANCE, 8.70 METERS SOUTHWEST OF THE CENTER OF HWY. 16 AND 0.67 METERS NORTHEAST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGHT AND FLUSH WITH THE GROUND SURFACE. THE SHOT DISTANCE IS 379.338 METERS. THIS STATION WAS UPDATED 5/25/00.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	440003A
Geodetic Azimuth	143 12 14.47639
Grid Azimuth	144 19 05.39743

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440003A	2/23/1994	AHTD	MADISON	16	090009

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	172,773.7162	
Easting (M)	227,343.1697	
Elevation (M)*		
Northing (SFT)	566,841.7672	
Easting (SFT)	745,875.0493	
Elevation (SFT)*		

Convergence Angle	-1	6	45.6318127
Scale Factor	0.999948820		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	52	31.9695708
Longitude	93	54	43.7219712
Ellipsoid Height (M):	379.595		
Geoid Height (M):	-27.902		

Location Description

AT THE JCT. OF HWY. AND HWY. 295 IN THE VILLAGE OF CROSSES, LOCATED ABOUT 35.4 KM SOUTHEAST OF FAYETTEVILLE, THE STATION IS LOCATED 20.0 METERS FROM THE ROAD JCT., 7.70 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 16, 20.0 METERS EAST OF THE CENTERLINE OF HWY. 295 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 1/2" ALUMINUM CAP STAMPED "440003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGHT AND IS FLUSH WITH THE GROUND SURFACE. THE SHOT DISTANCE IS 379.338 METERS. THIS STATION WAS UPDATED 5/25/00.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	305	7.00	23.0
MK # 2	NBC IN POWER POLE	175	6.60	21.7
MK # 3	TELEPHONE JUNCTION BOX	281	8.43	27.7

AZ Mark Station	440003
Geodetic Azimuth	323 12 19.78437
Grid Azimuth	324 19 05.39743

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440004A	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	200,227.7539	
Easting (M)	243,903.2810	
Elevation (M)*	382.464	
Northing (SFT)	656,913.8893	
Easting (SFT)	800,206.0144	
Elevation (SFT)*	1,254.801	

Convergence Angle	-1	0	32.7377713
Scale Factor	0.999980497		
Elevation Adjust. Factor	0.9999399825		
Combined Adjust. Factor	0.9999204807		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	32.5283700
Longitude	93	44	2.8994928
Ellipsoid Height (M):	353.923		
Geoid Height (M):	-28.540		

Location Description

MONUMENT IS AN AHTD 2 1/2 ALUMINUM CAP ON 3/4" x 36" REBAR IN CONCRETE POST ON EAST SIDE OF HIGHWAY 23 AND NORTH OF NEW BRIDGE OVER HOLMAN CREEK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	STOP SIGN	335	34.69	113.8
MK # 2	CHISELED X ON TOP @ NE COR OF BRIDGE	175	67.57	221.7
MK # 3	PK SHINER ON EAST EDGE OF PAVEMENT	335	8.11	26.6

AZ Mark Station	440003
Geodetic Azimuth	168 59 25.7
Grid Azimuth	167 58 53.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440005A	7/1/1993	rial Data Servic	MADISON	412	9948, R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,718.7049	
Easting (M)	246,162.1580	
Elevation (M)*	420.381	
Northing (SFT)	651,962.9510	
Easting (SFT)	807,617.0134	
Elevation (SFT)*	1,379.200	

Convergence Angle	0	59	39.5696198
Scale Factor	0.999978342		
Elevation Adjust. Factor	0.9999340329		
Combined Adjust. Factor	0.9999123763		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	44.8568424
Longitude	93	42	31.5294444
Ellipsoid Height (M):	391.846		
Geoid Height (M):	-28.535		

Location Description

MONUMENT IS AN AHTD 2 1/2 ALUMINUM CAP ON A 36" x 3/4" REBAR SET IN A CONCRETE POST NW OF AHTD MAINTENANCE AREA HEADQUARTERS BLDG IN R/W NW SIDE OF HIGHWAY 412.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL ON NORTH SHOULDER	170	7.96	26.1
MK # 2	FENCE CORNER	110	29.35	96.3
MK # 3	TO W MOST OF 2 2" POSTS IN R/W FENCE	35	4.30	14.1

AZ Mark Station	440006
Geodetic Azimuth	57 38 56.6
Grid Azimuth	56 39 17.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440006	7/1/1993	rial Data Servic	MADISON	412	9948,R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,905.8359	
Easting (M)	246,446.5490	
Elevation (M)*	426.837	
Northing (SFT)	652,576.8966	
Easting (SFT)	808,550.0528	
Elevation (SFT)*	1,400.381	

Convergence Angle	0	59	33.0290238
Scale Factor	0.999978621		
Elevation Adjust. Factor	0.9999330198		
Combined Adjust. Factor	0.9999116423		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	51.0872724
Longitude	93	42	20.2893588
Ellipsoid Height (M):	398.298		
Geoid Height (M):	-28.538		

Location Description

MONUMENT IS AN AHTD 2 1/2 ALUMINUM CAP ON A 36"x 3/4" REBAR SET IN A CONCRETE POST IN NORTH R/W OF HIGHWAY 412 NEAR TOP OF HILL NE OF AHTD MAINTENANCE AREA HEADQUARTERS

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CURVE SIGN	110	23.35	76.6
MK # 2	60D NAIL IN N SHOULDER OF HIGHWAY 41	190	8.89	29.2
MK # 3	BLACK 2" PIPE CORNER POST	230	20.09	65.9

AZ Mark Station	440005A
Geodetic Azimuth	237 38 50.0
Grid Azimuth	236 39 17.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440007A	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,873.4209	
Easting (M)	238,633.4660	
Elevation (M)*	464.699	
Northing (SFT)	652,470.5484	
Easting (SFT)	782,916.6297	
Elevation (SFT)*	1,524.600	

Convergence Angle	-1	2	34.7784189
Scale Factor	0.999978372		
Elevation Adjust. Factor	0.9999270789		
Combined Adjust. Factor	0.9999054525		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	45.5331888
Longitude	93	47	32.6276772
Ellipsoid Height (M):	436.078		
Geoid Height (M):	-28.395		

Location Description

MON IS A 2 1/2" BRASS CAP ON 3/4"x 36" REBAR STAMPED "AHTD GPS 440007A" TO REACH FROM JCT OF HWY 412 & MADISON CO RD 478 PROCEED SW ON 478 APPROX .2 MILE TO CURVE S GO S APPROX .1MILE TO A DRIVE TURN W TO THE CORNETT HOOUSE TURN N AT RED GATE AND GO APPROX .15 MI N TO STA.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN THE SE FACE OF 18" OAK	320	26.21	86.0
MK # 2	60D NAIL IN THE NE FACE OF 14" OAK	210	14.33	47.0
MK # 3	60D NAIL IN THE EAST FACE OF 18" OAK	290	18.40	60.4

AZ Mark Station	440008
Geodetic Azimuth	357 34 49.3
Grid Azimuth	358 37 24.1

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440008	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,364.2279	
Easting (M)	238,645.2610	
Elevation (M)*	443.732	
Northing (SFT)	654,080.8044	
Easting (SFT)	782,955.3271	
Elevation (SFT)*	1,455.811	

Convergence Angle	-1	2	34.7118932
Scale Factor			0.999979087
Elevation Adjust. Factor			0.9999303688
Combined Adjust. Factor			0.9999094573

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	1.4614968
Longitude	93	47	32.5133520
Ellipsoid Height (M):	415.366		
Geoid Height (M):	-28.399		

Location Description

MONUMENT IS 2 1/2" BRASS CAP FLUSH ON A 3/4" x 36" REBAR STAMPED "AHTD GPS 440008 WEST-NW OF "SELECTRONIC" OFFICE. MONUMENT IS ON LAND OWNED BY CLIFTON WOOD RT 3 BOX 273 HUNTSVILLE, ARKANSAS PHONE# (501) 738-2892

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN THE EAST FACE OF 18" CEDAR	280	22.35	73.3
MK # 2	60D NAIL IN THE SOUTH FACE OF 24" OAK	20	31.42	103.1
MK # 3	NW CORNER OF OLD CHICKEN BARN	120	27.37	89.8

AZ Mark Station	440007A
Geodetic Azimuth	177 34 49.4
Grid Azimuth	178 37 24.1

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440009	11/10/1994	AHTD	MADISON	412	009951

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	200,312.0890	
Easting (M)	234,618.9550	
Elevation (M)*	416.507	
Northing (SFT)	657,190.5787	
Easting (SFT)	769,745.6882	
Elevation (SFT)*	1,366.491	

Convergence Angle	-1	4	8.7937504
Scale Factor			0.999980373
Elevation Adjust. Factor			0.9999346407
Combined Adjust. Factor			0.9999150150

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	29.8014924
Longitude	93	50	14.1940500
Ellipsoid Height (M):	387.860		
Geoid Height (M):	-28.515		

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 45 JUST SOUTHEAST OF HINDSVILLE, GO EAST ON HWY. 412 FOR 2.397 KM (1.49 MILES) TO THE STATION ON THE LEFT. THE STATION IS 14.6 METERS NORTHEAST OF THE CENTERLINE OF HWY. 412, 36.5 METERS SOUTHEAST OF THE CENTER OF COUNTY ROAD NO. 41 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	3" BRACE POST	296	21.00	68.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	440009A
Geodetic Azimuth	293 50 53.6819
Grid Azimuth	294 55 02.3687

Area Reference Monuments (used for Processing)

Ref Mon # 1	PRICE
Ref Mon # 2	HINDSVILLE NO. 2
Ref Mon # 3	440001

Comments

Cross Reference Job: 9948 Elevations were established with levels on 9/04 by S5103 in Job 009951/090116

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440009A	11/10/1994	AHTD	MADISON	412	9951

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	200,633.7380	
Easting (M)	233,926.5710	
Elevation (M)*	419.604	
Northing (SFT)	658,245.8554	
Easting (SFT)	767,474.0917	
Elevation (SFT)*	1,376.651	

Convergence Angle	-1	4	25.0435884
Scale Factor	0.999980832		
Elevation Adjust. Factor	0.9999341548		
Combined Adjust. Factor	0.9999149880		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	39.8153388
Longitude	93	50	42.1195740
Ellipsoid Height (M):	390.968		
Geoid Height (M):	-28.516		

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 45 JUST SOUTHEAST OF HINDSVILLE, GO EAST ON HWY. 412 FOR 1.64 KM (1.02 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 13.25 METERS WEST OF THE CENTER OF A PRIVATE DRIVEWAY, 10.96 METERS SOUTH OF THE CENTERLINE OF HWY. 412 AND 0.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "440009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	125	5.74	18.8
MK # 2	48" MAPLE TREE	135	24.80	81.4
MK # 3	NORTHWEST CORNER OF A HOUSE	150	28.75	94.3

AZ Mark Station	440009
Geodetic Azimuth	113 50 37.2179
Grid Azimuth	114 55 02.3687

Area Reference Monuments (used for Processing)

Ref Mon # 1	PRICE
Ref Mon # 2	HIINDSVILLE NO. 2
Ref Mon # 3	440001

Comments

Cross Reference Job: 9948 Elevations were established with levels on 9/04 by S5103 in Job 009951/090116

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440010	4/22/1997	AHTD	MADISON	412	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	196,959.0999	
Easting (M)	244,410.3500	
Elevation (M)*	425.918	
Northing (SFT)	646,189.9803	
Easting (SFT)	801,869.6233	
Elevation (SFT)*	1,397.366	

Convergence Angle	-1	0	19.6047593
Scale Factor			0.999975789
Elevation Adjust. Factor			0.9999331640
Combined Adjust. Factor			0.9999089547

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	5	46.7840400
Longitude	93	43	40.3302684
Ellipsoid Height (M):	397.402		
Geoid Height (M):	-28.516		

Location Description

TO REACH THE STATION FROM THE "Y" JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 23, LOCATED ON THE EAST SIDE OF HUNTSVILLE, GO NORTHERLY ON U.S. HIGHWAY 412 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.00 METERS NORTHEAST OF THE CENTER OF THE SOUTH ENTRANCE TO SAMS BARBER & BEAUTY SHOP, 17.65 METERS SOUTHWEST OF THE NORTH ENTRANCE TO SAMS BARBER & BEAUTY SHOP, 8.85 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 AND 1.45 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440010 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE COR OF SAMS BARBER & BEAUTY SH OP	328	17.26	56.6
MK # 2	SE COR OF SAMS BARBER & BEAUTY SHO P	281	12.96	42.5
MK # 3	CABLE POLE	299	1.69	5.5

AZ Mark Station	440010A
Geodetic Azimuth	355 55 09.3187
Grid Azimuth	356 55 28.9124

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440010A	4/22/1997	AHTD	MADISON	N/A	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,019.9239	
Easting (M)	244,353.3560	
Elevation (M)*	431.301	
Northing (SFT)	649,670.3670	
Easting (SFT)	801,682.6355	
Elevation (SFT)*	1,415.027	

Convergence Angle	-1	0	21.3636199
Scale Factor	0.999977291		
Elevation Adjust. Factor	0.9999323194		
Combined Adjust. Factor	0.9999096119		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	21.1643244
Longitude	93	43	43.3528896
Ellipsoid Height (M):	402.778		
Geoid Height (M):	-28.523		

Location Description

TO REACH THE STATION FROM THE "Y" JUNCTION OF U.S. 412 AND STATE HIGHWAY 63 ON THE EASTERN SIDE OF HUNTSVILLE GO NORTHERLY ON HWY-23 FOR 0.97 KM. (0.60 MI.) TO A PAVED ROAD RIGHT ENTERING INTO THE "CEDAR BLUFF" SUBDIVISION. TURN RIGHT AND GO EASTERLY AND UPHILL FOR 0.40 KM. (0.25 MI.) TO THE JUNCTION OF ANOTHER PAVED ROAD AND THE STATION ON THE LEFT IN THE NORTHWEST CORNER OF THE INTERSECTION. 7.85 METERS NORTH OF THE CENTER OF A PAVED STREET, 6.45 METERS WEST OF THE CENTER OF A PAVED STREET AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440010A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	141	24.55	80.5
MK # 2	GAS METER	285	43.65	143.2
MK # 3	TELEPHONE JUNCTION BOX	302	50.20	164.7

AZ Mark Station	440010
Geodetic Azimuth	175 55 07.5377
Grid Azimuth	176 55 28.9124

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440011	4/22/1997	AHTD	MADISON	412	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	200,733.9850
Easting (M)	248,411.3940
Elevation (M)*	400.807
Northing (SFT)	658,574.7491
Easting (SFT)	814,996.3818
Elevation (SFT)*	1,314.981

Convergence Angle	0	58	48.0456366
Scale Factor			0.999981370
Elevation Adjust. Factor			0.9999371043
Combined Adjust. Factor			0.9999184754

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	7	51.4889616	
Longitude	93	41	2.9849172	
Ellipsoid Height (M):	372.245			
Geoid Height (M):	-28.561			

Location Description

TO REACH THE STATION FROM THE JUNCTION U.S. HIGHWAY 412 AND STATE HIGHWAY 127, LOCATED ABOUT 8.05 KM (5.00 MI) NORTHEAST OF HUNTSVILLE AT OLD ALABAM, GO SOUTHWEST ON U.S. HIGHWAY 412 FOR 0.48 (0.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH-NORTHWEST OF THE CENTER OF U.S. HIGHWAY 412 , 0.82 METERS SOUTH-SOUTEAST OF A BARBED WIRE FENCE AND 0.68 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440011 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	0.060 METER IRON PIPE FENCE LINE BRACE	65	7.30	24.0
MK # 2				
MK # 3				

AZ Mark Station	440011A
Geodetic Azimuth	239 37 27.93039
Grid Azimuth	240 36 15.92509

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440011A	4/22/1997	AHTD	MADISON	412	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	200,546.4519	
Easting (M)	248,078.5160	
Elevation (M)*	393.243	
Northing (SFT)	657,959.4843	
Easting (SFT)	813,904.2646	
Elevation (SFT)*	1,290.165	

Convergence Angle	0	58	55.7166527
Scale Factor	0.999981080		
Elevation Adjust. Factor	0.9999382912		
Combined Adjust. Factor	0.9999193723		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	45.2205516
Longitude	93	41	16.1676420
Ellipsoid Height (M):	364.685		
Geoid Height (M):	-28.558		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 127, LOCATED ABOUT 8.05 KM (5.00 MI) NORTHEAST OF HUNTSVILLE AT OLD ALABAM, GO SOUTHWEST ON U.S. HIGHWAY 412 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.30 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE, 11.55 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 412, 10.00 METERS SOUTH OF THE CENTER OF A CONCRETE HEADWALL 1.64 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440011A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	0.110 METER IRON PIPE TO A CABLE FENCE	63	9.02	29.6
MK # 2	0.110 METER IRON PIPE TO A CABLE FENCE	124	1.70	5.6
MK # 3	TELEPHONE JUNCTION BOX	157	10.90	35.8

AZ Mark Station	440011
Geodetic Azimuth	59 37 20.15756
Grid Azimuth	60 36 15.92509

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440012	4/22/1997	AHTD	MADISON	412	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	200,283.2139
Easting (M)	254,874.3680
Elevation (M)*	463.203
Northing (SFT)	657,095.8443
Easting (SFT)	836,200.3223
Elevation (SFT)*	1,519.692

Convergence Angle	0	56	17.4832677
Scale Factor	0.999980857		
Elevation Adjust. Factor	0.9999273136		
Combined Adjust. Factor	0.9999081720		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	40.3759308
Longitude	93	36	44.2418436
Ellipsoid Height (M):	434.613		
Geoid Height (M):	-28.590		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 6.68 KM (4.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 41.886 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 11.24 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412 AND 0.75 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440012 1997" SET ON TOP OF AN IRON ROD 1.20 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	250	2.90	9.5
MK # 2	POWER POLE	22	26.69	87.6
MK # 3	WOODED GATE POST	87	39.69	130.2

AZ Mark Station	440012A
Geodetic Azimuth	307 55 37.45199
Grid Azimuth	308 51 54.88224

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440012A	4/22/1997	AHTD	MADISON	N/A	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	200,557.0150	
Easting (M)	254,534.6220	
Elevation (M)*	462.725	
Northing (SFT)	657,994.1400	
Easting (SFT)	835,085.6723	
Elevation (SFT)*	1,518.124	

Convergence Angle	0	56	25.4932766
Scale Factor	0.999981258		
Elevation Adjust. Factor	0.9999273886		
Combined Adjust. Factor	0.9999086480		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	49.0773288
Longitude	93	36	58.0071312
Ellipsoid Height (M):	434.135		
Geoid Height (M):	-28.590		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 7.08 KM (4.40 MI) TO THE JUNCTION OF COUNTY ROAD 278 ON THE RIGHT, TURN RIGHT NORTH ON COUNTY ROAD 278 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 3.90 METERS WEST OF THE CENTER OF COUNTY ROAD 278 AND 0.40 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440012A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	440012
Geodetic Azimuth	127 55 29.33587
Grid Azimuth	128 51 54.88224

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440013	4/22/1997	AHTD	MADISON	412	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	201,389.1620	
Easting (M)	257,492.1300	
Elevation (M)*	399.095	
Northing (SFT)	660,724.2757	
Easting (SFT)	844,788.7632	
Elevation (SFT)*	1,309.364	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	8	17.6310960	
Longitude	93	35	0.2749488	
Ellipsoid Height (M):	370.481			
Geoid Height (M):	-28.614			

Convergence Angle	0	55	16.9850223	
Scale Factor	0.999982586			
Elevation Adjust. Factor	0.9999373729			
Combined Adjust. Factor	0.9999199600			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 3.14 KM (1.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.600 METERS WEST OF THE CENTER OF DRIVEWAY, 10.25 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 412, 6.419 METERS SOUTH OF A PAVED ROAD (OLD HIGHWAY) AND 1.63 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440013 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER FENCE POST	297	51.87	170.2
MK # 2	WOODEN CORNER FENCE POST	84	41.09	134.8
MK # 3	WEST END OF CONCRETE HEADWALL	119	25.48	83.6

AZ Mark Station	440013A
Geodetic Azimuth	87 43 52.61868
Grid Azimuth	88 39 09.67904

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440013A	4/22/1997	AHTD	MADISON	N/A	R90104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	201,400.4720
Easting (M)	257,973.0340
Elevation (M)*	397.430
Northing (SFT)	660,761.3819
Easting (SFT)	846,366.5290
Elevation (SFT)*	1,303.902

Convergence Angle	0	55	5.7977346
Scale Factor			0.999982615
Elevation Adjust. Factor			0.9999376342
Combined Adjust. Factor			0.9999202502

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	18.2484672
Longitude	93	34	41.0494728
Ellipsoid Height (M):	368.813		
Geoid Height (M):	-28.617		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 21 SOUTH, LOCATED ABOUT 3.22 KM (2.00 MI) EAST OF MARBLE, GO WEST ON U.S. HIGHWAY 412 FOR 2.49 KM (1.55 MI) TO THE JUNCTION OF COUNTY ROAD 24 ON THE RIGHT, TURN RIGHT NORTH ON COUNTY ROAD 24 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 4.30 METERS WEST OF THE CENTER OF COUNTY ROAD 24, 0.85 METERS EAST OF A BARBED WIRE FENCE AND 0.66 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440013A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND IS DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	173	19.65	64.5
MK # 2	WOODEN LINE BRACE FENCE POST	349	27.40	89.9
MK # 3				

AZ Mark Station	440013
Geodetic Azimuth	267 44 03.95665
Grid Azimuth	268 39 09.67904

Area Reference Monuments (used for Processing)

Ref Mon # 1	HUNTSVILLE
Ref Mon # 2	BURLINGTON RESET
Ref Mon # 3	MARBLE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440014	1/11/2000	AHTD	MADISON	23	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	165,635.0420	
Easting (M)	238,210.3099	
Elevation (M)*		
Northing (SFT)	543,420.9670	
Easting (SFT)	781,528.3251	
Elevation (SFT)*		

Convergence Angle	-1	2	30.5609383
Scale Factor	0.999943883		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	48	47.0110284
Longitude	93	47	25.3798908
Ellipsoid Height (M):	418.100		
Geoid Height (M):	-27.962		

Location Description

TO REACH THE STATIONS FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO EAST ON STATE HIGHWAY 23 FOR 0.45 KM (0.28 MI) TO THE STATION ON THE RIGHT. THE STATION IS LOCATED 28.09 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 23, 5.72 METERS WEST OF A GRAVEL DRIVE AND 4.54 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440014 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 418.992 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	91	3.59	11.8
MK # 2	WOODEN BRACE POST	141	3.37	11.1
MK # 3	NONE			

AZ Mark Station	440014A
Geodetic Azimuth	258 41 53.14165
Grid Azimuth	259 44 23.67609

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440014A	1/11/2000	AHTD	MADISON	23	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	165,560.4408
Easting (M)	237,798.1738
Elevation (M)*	
Northing (SFT)	543,176.2129
Easting (SFT)	780,176.1752
Elevation (SFT)*	

Convergence Angle	-1	2	40.0813204
Scale Factor			0.999943832
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	48	44.3473704
Longitude	93	47	41.7407712
Ellipsoid Height (M):	417.590		
Geoid Height (M):	-27.965		

Location Description

THE STATION IS LOCATED AT THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS. THE STATION IS 15.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 23 AND 1.44 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440014A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 418.892 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MOST WESTERLY WOODEN BRACE POST	265	2.87	9.4
MK # 2	MIDDLE WOODEN BRACE POST	322	1.63	5.3
MK # 3	MOST EASTERLY WOODEN BRACE POST	16	2.70	8.9

AZ Mark Station	440014
Geodetic Azimuth	78 41 43.56829
Grid Azimuth	79 44 23.67609

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440015	1/11/2000	AHTD	MADISON	16	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,853.5828	
Easting (M)	234,358.3247	
Elevation (M)*		
Northing (SFT)	547,418.7962	
Easting (SFT)	768,890.6036	
Elevation (SFT)*		

Convergence Angle	-1	4	0.3620069
Scale Factor	0.999944618		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	49	24.2428548
Longitude	93	49	59.7040068
Ellipsoid Height (M):	404.998		
Geoid Height (M):	-27.958		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 5.55 KM (3.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.82 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 16 AND 1.12 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440015 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 482.304 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	344	1.95	6.4
MK # 2	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	36	1.87	6.1
MK # 3	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	65	3.25	10.7

AZ Mark Station	440015A
Geodetic Azimuth	3 24 54.28873
Grid Azimuth	4 28 54.65269

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440015A	1/11/2000	AHTD	MADISON	295	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	167,334.3608	
Easting (M)	234,396.0095	
Elevation (M)*		
Northing (SFT)	548,996.1487	
Easting (SFT)	769,014.2412	
Elevation (SFT)*		

Convergence Angle	-1	3	59.6959723
Scale Factor	0.999944936		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	49	39.8627904
Longitude	93	49	58.5594192
Ellipsoid Height (M):	401.875		
Geoid Height (M):	-27.952		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 295 AND STATE HIGHWAY 16, LOCATED ON THE EAST SIDE OF COMBS, GO NORTH ON STATE HIGHWAY 295 FOR 0.37 KM (0.23 MI) TO THE STATION ON THE RIGHT. THE STATION IS 6.27 METERS SOUTHEAST OF THE CENTER OF STATE HIHGWAY 295 AND 1.04 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440015A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	258	2.15	7.1
MK # 2	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	316	1.15	3.8
MK # 3	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	11	2.20	7.2

AZ Mark Station	440015
Geodetic Azimuth	183 24 54.95868
Grid Azimuth	184 28 54.65269

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440016	1/11/2000	AHTD	MADISON	16	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	170,297.7069	
Easting (M)	228,130.3447	
Elevation (M)*		
Northing (SFT)	558,718.3934	
Easting (SFT)	748,457.6392	
Elevation (SFT)*		

Convergence Angle	-1	6	26.2639336
Scale Factor	0.999946932		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	12.1407408
Longitude	93	54	10.4380596
Ellipsoid Height (M):	382.535		
Geoid Height (M):	-27.925		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 12.99 KM (8.07 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.10 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE, 6.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 16 AND 2.05 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440016 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 483.966 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER POST	317	8.22	27.0
MK # 2	WOODEN CORNER POST	59	2.80	9.2
MK # 3	NONE			

AZ Mark Station	440016A
Geodetic Azimuth	298 42 24.80080
Grid Azimuth	299 48 51.03239

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440016A	1/11/2000	AHTD	MADISON	16	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	170,538.3036	
Easting (M)	227,710.4802	
Elevation (M)*		
Northing (SFT)	559,507.7511	
Easting (SFT)	747,080.1338	
Elevation (SFT)*		

Convergence Angle	-1	6	36.1077375
Scale Factor	0.999947104		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	19.6823088
Longitude	93	54	27.3547440
Ellipsoid Height (M):	396.741		
Geoid Height (M):	-27.922		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 13.45 KM (8.36 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.00 METERS SOUTHWEST OF THE CENTER OF STATE HIHGWAY 16 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440016A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 483.966 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	440016
Geodetic Azimuth	118 42 14.89223
Grid Azimuth	119 48 51.03239

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440017	1/11/2000	AHTD	MADISON	16	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	177,552.5379	
Easting (M)	224,742.9398	
Elevation (M)*		
Northing (SFT)	582,520.2848	
Easting (SFT)	737,344.1283	
Elevation (SFT)*		

Convergence Angle	-1	7	48.1278873
Scale Factor	0.999952868		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	55	5.3451552
Longitude	93	56	31.1221572
Ellipsoid Height (M):	395.969		
Geoid Height (M):	-27.888		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIGHWAY 16 FOR 21.52 KM (13.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.30 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 16 AND 0.76 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440017 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 593.669 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	45	1.00	3.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	440017A
Geodetic Azimuth	320 06 28.06552
Grid Azimuth	321 14 16.15734

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440017A	1/11/2000	AHTD	MADISON	16	090009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	178,015.4090
Easting (M)	224,371.2847
Elevation (M)*	
Northing (SFT)	584,038.8877
Easting (SFT)	736,124.7899
Elevation (SFT)*	
Convergence Angle	-1 7 56.9649713
Scale Factor	0.999953287
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 55 20.1226368
Longitude	93 56 46.3087824
Ellipsoid Height (M):	386.794
Geoid Height (M):	-27.889

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO NORTHWEST ON STATE HIHGWAY 16 FOR 22.10 KM (13.73 MI) TO THE STATION ON THE RIGHT SET ON THE TOP OF A HILL. THE STATION IS 18.30 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 16, 2.85 METERS NORTH OF THE CENTER OF A GRAVEL ROAD AND 0.74 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440017A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	298	2.05	6.7
MK # 2	WOODEN CORNER POST	89	14.50	47.6
MK # 3	GUY POLE	158	11.60	38.1

AZ Mark Station	440017
Geodetic Azimuth	140 06 19.15616
Grid Azimuth	141 14 16.15734

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	GAYLOR
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440018	9/14/2000	AHTD	MADISON	23	009966,090552

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,802.3657	
Easting (M)	240,564.3026	
Elevation (M)*	461.191	
Northing (SFT)	547,250.7615	
Easting (SFT)	789,251.3828	
Elevation (SFT)*	1,513.091	

Convergence Angle	-1	1	36.4880436
Scale Factor			0.999944659
Elevation Adjust. Factor			0.9999276293
Combined Adjust. Factor			0.9998722923

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	49	26.2600068	
Longitude	93	45	52.4550312	
Ellipsoid Height (M):	433.256			
Geoid Height (M):	-27.935			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 3.03 KM (1.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 23 AND 16, 3.93 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.61 METERS NORTH OF A WITNESS POST SET AT THE NORTHEAST CORNER OF A CHAINLINK FENCE SURROUNDING A SCHOOL PLAYGROUND. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440018 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 901. THE SHOT DISTANCE IS 403.750.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST OF CHAIN LINK FENCE	181	0.80	2.6
MK # 2	GATE POST OF CHAIN LINK FENCE	270	17.65	57.9
MK # 3	NONE			

AZ Mark Station	440018A
Geodetic Azimuth	274 32 38.08723
Grid Azimuth	275 34 14.54803

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	AHTD HAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440018A	9/14/2000	AHTD	MADISON	23	009966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,841.5548	
Easting (M)	240,162.5058	
Elevation (M)*	458.964	
Northing (SFT)	547,379.3344	
Easting (SFT)	787,933.1544	
Elevation (SFT)*	1,505.784	

Convergence Angle	-1	1	45.8179505
Scale Factor			0.999944680
Elevation Adjust. Factor			0.9999279788
Combined Adjust. Factor			0.9998726628

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	27.2974548
Longitude	93	46	8.4885780
Ellipsoid Height (M):	431.028		
Geoid Height (M):	-27.936		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 3.38 KM (2.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS EAST-SOUTHEAST OF A WATER METER, 7.55 METERS NORTH OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440018A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 901. THE SHOT DISTANCE IS 403.750.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	90	23.84	78.2
MK # 2	GUY POLE	192	15.15	49.7
MK # 3	GUY POLE	269	16.00	52.5

AZ Mark Station	440018
Geodetic Azimuth	94 32 28.70281
Grid Azimuth	95 34 14.54803

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	AHTD HAR 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440019	9/14/2000	AHTD	MADISON	23	009966,090552

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	168,430.4135	
Easting (M)	242,178.8026	
Elevation (M)*	480.928	
Northing (SFT)	552,592.1150	
Easting (SFT)	794,548.2882	
Elevation (SFT)*	1,577.845	

Convergence Angle	-1	0	59.7336972
Scale Factor			0.999945780
Elevation Adjust. Factor			0.9999245324
Combined Adjust. Factor			0.9998703165

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	50	20.0111460	
Longitude	93	44	49.2922860	
Ellipsoid Height (M):	453.027			
Geoid Height (M):	-27.901			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OFST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 0.69 KM (0.43 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.85 METERS EAST-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 1.35 METERS WEST-NORTWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440019 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM- 902. THE SHOT DISTANCE IS 286.285 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKER	199	15.15	49.7
MK # 2	CONCRETE R/W MARKER	27	19.15	62.8
MK # 3	NONE			

AZ Mark Station	440019A
Geodetic Azimuth	49 10 14.73716
Grid Azimuth	50 11 14.48646

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	AHTD HAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440019A	9/14/2000	AHTD	MADISON	23	009966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	168,613.6925	
Easting (M)	242,398.6823	
Elevation (M)*	483.457	
Northing (SFT)	553,193.4228	
Easting (SFT)	795,269.6768	
Elevation (SFT)*	1,586.142	

Convergence Angle	-1	0	54.7112483
Scale Factor			0.999945911
Elevation Adjust. Factor			0.9999241356
Combined Adjust. Factor			0.9998700507

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	26.0835648
Longitude	93	44	40.6611528
Ellipsoid Height (M):	455.560		
Geoid Height (M):	-27.897		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED ABOUT 3.22 KM (2.00 MI) NORTHEAST OF ST PAUL, GO SOUTHWEST ON STATE HIGHWAY 23 AND STATE HIGHWAY 16 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. YHE STATION IS 25.40 METERS NORTHEAST 0F THE CENTER OF A PAVED ENTRANCE TO A PASTURE, 10.00 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 23 AND 16 AND 1.14 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "440019A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING BY CREW S5102 FROM TBM 902. THE SHOT DISTANCE IS 286.285 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	192	3.60	11.8
MK # 2	TELEPHONE JUNCTION BOX	231	21.50	70.5
MK # 3	NONE			

AZ Mark Station	440019
Geodetic Azimuth	229 10 19.79086
Grid Azimuth	230 11 14.48646

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	AHTD HAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440020	6/29/2001	AHTD	MADISON	74	009862,090343

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	189,986.8949	
Easting (M)	246,639.1560	
Elevation (M)*	402.320	
Northing (SFT)	623,315.3377	
Easting (SFT)	809,181.9643	
Elevation (SFT)*	1,319.944	

Convergence Angle	0	59	24.9616059
Scale Factor	0.999966649		
Elevation Adjust. Factor	0.9999368669		
Combined Adjust. Factor	0.9999035180		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	1.8644928
Longitude	93	42	6.4254132
Ellipsoid Height (M):	374.431		
Geoid Height (M):	-27.844		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO EAST ON STATE HIGHWAY 74 FOR 0.145 KM (0.09 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS SOUTH OF THE CENTER OF HIGHWAY 74 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440020 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 492.655 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	440020A
Geodetic Azimuth	88 12 14
Grid Azimuth	89 11 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	HARRISON CORS
Ref Mon # 2	V 26
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 & AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440020A	6/29/2001	AHTD	MADISON	74	009862,090343

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	189,993.8240
Easting (M)	247,131.7240
Elevation (M)*	
Northing (SFT)	623,338.0709
Easting (SFT)	810,797.9978
Elevation (SFT)*	
Convergence Angle	0 59 13.5166198
Scale Factor	0.999966668
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 2 2.3650332
Longitude	93 41 46.7570796
Ellipsoid Height (M):	389.985
Geoid Height (M):	-27.844

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO EAST ON STATE HIGHWAY 74 FOR 0.628 KM (0.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.85 METERS NORTH OF THE CENTER OF HIGHWAY 74 AND 0.59 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440020A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 492.655 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WESTERN WOODEN IN LINE BRACE POST		1.45	4.8
MK # 2	EASTERN WOODEN IN LINE BRACE POST		1.20	3.9
MK # 3				

AZ Mark Station	440020
Geodetic Azimuth	268 12 25
Grid Azimuth	269 11 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	HARRISON CORS
Ref Mon # 2	V 26
Ref Mon # 3	GAYLOR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440021	6/29/2001	AHTD	MADISON	23	009862,090343

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,367.5590	
Easting (M)	244,340.0570	
Elevation (M)*	467.618	
Northing (SFT)	634,406.7332	
Easting (SFT)	801,639.0037	
Elevation (SFT)*	1,534.177	

Convergence Angle	-1	0	19.7735738
Scale Factor			0.999970904
Elevation Adjust. Factor			0.9999266208
Combined Adjust. Factor			0.9998975270

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	50.2349652
Longitude	93	43	40.6203780
Ellipsoid Height (M):	439.712		
Geoid Height (M):	-27.858		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 FOR 4.522 KM (2.81 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.70 METERS EAST OF THE CENTER OF HIGHWAY 23 AND 0.84 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440021 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 470.799 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER POST		0.95	3.1
MK # 2	TELEPHONE JUNCTION BOX		17.10	56.1
MK # 3				

AZ Mark Station	440021A
Geodetic Azimuth	168 21 23
Grid Azimuth	169 21 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	HARRISON CORS
Ref Mon # 2	V 26
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 & AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440021A	6/29/2001	AHTD	MADISON	23	009862,090343

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,904.8969	
Easting (M)	244,426.9600	
Elevation (M)*	483.475	
Northing (SFT)	632,888.8159	
Easting (SFT)	801,924.1179	
Elevation (SFT)*	1,586.200	

Convergence Angle	-1	0	17.5644385
Scale Factor	0.999970300		
Elevation Adjust. Factor	0.9999241328		
Combined Adjust. Factor	0.9998944351		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	35.2756512
Longitude	93	43	36.8239548
Ellipsoid Height (M):	455.565		
Geoid Height (M):	-27.856		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 23 AND 74 LOCATED SOUTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 FOR 4.056 KM (2.52 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.15 METERS NORTH OF A PAVED DRIVE, 29.40 METERS SOUTH OF A CONCRETE DRIVE, 11.00 METERS EAST OF THE CENTER OF HIGHWAY 23 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "440021A 2001" SET ON TOPOF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 470.799 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORRIGATED METAL PIPE		25.50	83.7
MK # 2				
MK # 3				

AZ Mark Station	440021
Geodetic Azimuth	348 21 26
Grid Azimuth	349 21 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	HARRISON CORS
Ref Mon # 2	V 26
Ref Mon # 3	GAYLOR

Comments

ELEVATION BY DIGITAL LEVELS FROM 2ND ORDER NGS BM J 51 BY CREW S5112 IN SEPT. 2012 FOR JOB #090343 & AND USED 3RD ORDER NGS BM K 51 RESET AS A CHECK IN THE DIGITAL LEVEL LOOP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440022			NA	NA	040151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,743.4160	
Easting (M)	225,408.8040	
Elevation (M)*		
Northing (SFT)	645,482.3573	
Easting (SFT)	739,528.7178	
Elevation (SFT)*		

Convergence Angle	-1	7	41.4458877
Scale Factor	0.999974993		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	5	28.3092576
Longitude	93	56	19.6390680
Ellipsoid Height (M):	365.618		
Geoid Height (M):	-27.894		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440022A			NA	NA	040151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,479.4209	
Easting (M)	225,760.1670	
Elevation (M)*		
Northing (SFT)	644,616.2334	
Easting (SFT)	740,681.4812	
Elevation (SFT)*		

Convergence Angle	-1	7	33.1537148
Scale Factor	0.999974637		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	5	19.9698864
Longitude	93	56	5.3888784
Ellipsoid Height (M):	404.884		
Geoid Height (M):	-27.892		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440101	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,764.6229	
Easting (M)	240,182.1330	
Elevation (M)*	464.970	
Northing (SFT)	652,113.6003	
Easting (SFT)	787,997.5480	
Elevation (SFT)*	1,525.489	

Convergence Angle	-1	1	58.7052653
Scale Factor			0.999978255
Elevation Adjust. Factor			0.9999270364
Combined Adjust. Factor			0.9999052930

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	6	42.9140844	
Longitude	93	46	30.6355692	
Ellipsoid Height (M):	436.454			
Geoid Height (M):	-28.516			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "1" SET FLUSH WITH GROUND IN A CLEARING SOUTH APPROX 300' FROM HOUSE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SOUTH FACE OF 18" WHITE OAK		33.57	110.1
MK # 2	60D NAIL IN WEST FACE OF 8" OAK		22.71	74.5
MK # 3	60D NAIL IN EAST FACE OF 4" BIRCH		27.33	89.6

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440102	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,271.4379	
Easting (M)	240,226.4580	
Elevation (M)*	473.471	
Northing (SFT)	653,776.3758	
Easting (SFT)	788,142.9710	
Elevation (SFT)*	1,553.379	

Convergence Angle	-1	1	57.8866576
Scale Factor			0.999978993
Elevation Adjust. Factor			0.9999257025
Combined Adjust. Factor			0.9999046970

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	59.3806896
Longitude	93	46	29.2287828
Ellipsoid Height (M):	444.951		
Geoid Height (M):	-28.520		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "2" SET 21.65' WEST OF CENTER LINE OF COUNTY ROAD #34 AND NW OF CONVENIENCE STORE ON EAST SIDE OF ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	8" PINE		14.66	48.1
MK # 2	60D NAIL IN NE FACE OF 6" CORNER POST		12.24	40.2
MK # 3	WEST OF CENTER LINE OF COUNTY ROAD #34		6.60	21.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440103	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,972.4520	
Easting (M)	241,222.6730	
Elevation (M)*	452.635	
Northing (SFT)	652,795.4529	
Easting (SFT)	791,411.3863	
Elevation (SFT)*	1,485.020	

Convergence Angle	-1	1	34.5853745
Scale Factor			0.999978584
Elevation Adjust. Factor			0.9999289719
Combined Adjust. Factor			0.9999075574

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	6	50.2625484	
Longitude	93	45	49.1852736	
Ellipsoid Height (M):	424.114			
Geoid Height (M):	-28.521			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "3" FLUSH WITH GROUND ON PROPERTY OWNED BY X. DOTSON. STATION IS 102.2' SOUTH OF SOUTH RIGHT-OF-WAY FENCE OF A DIRT AND GRAVEL ROAD AND IS NORTH OF A DRAIN.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 5" ELM		15.67	51.4
MK # 2	ORANGE "T" POST		31.15	102.2
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440104	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,423.0400	
Easting (M)	241,000.9760	
Elevation (M)*	443.966	
Northing (SFT)	654,273.7571	
Easting (SFT)	790,684.0354	
Elevation (SFT)*	1,456.578	

Convergence Angle	-1	1	39.9309834
Scale Factor			0.999979235
Elevation Adjust. Factor			0.9999303321
Combined Adjust. Factor			0.9999095686

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	ADS - Unknown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	7	4.7503668	
Longitude	93	45	58.3717608	
Ellipsoid Height (M):	415.443			
Geoid Height (M):	-28.523			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "4" NORTH OF TRACK ROAD AND APPROX 300' NW OF RIGHT ANGLE TURN ON PRIVATE PROPERTY.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SOUTH FACE OF UTILITY POLE		32.81	107.6
MK # 2	60D NAIL IN SOUTH FACE OF 4" PECAN TR		20.67	67.8
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440105	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,988.3139	
Easting (M)	242,480.4030	
Elevation (M)*	456.762	
Northing (SFT)	652,847.4932	
Easting (SFT)	795,537.7888	
Elevation (SFT)*	1,498.560	

Convergence Angle	-1	1	5.3320335
Scale Factor			0.999978639
Elevation Adjust. Factor			0.9999283243
Combined Adjust. Factor			0.9999069648

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	6	51.5050848	
Longitude	93	44	58.9130880	
Ellipsoid Height (M):	428.237			
Geoid Height (M):	-28.525			

Location Description

STATION IS A 5/8 REBAR WITH ALUMINUM CAP STAMPED "5" IN UTILITY RIGHT-OF-WAY.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SW FACE OF12" OAK TREE		21.40	70.2
MK # 2	60D NAIL IN WEST FACE OF 39" POST OAK		27.30	89.6
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440106	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,587.3350	
Easting (M)	242,241.7650	
Elevation (M)*	425.898	
Northing (SFT)	654,812.7816	
Easting (SFT)	794,754.8573	
Elevation (SFT)*	1,397.300	

Convergence Angle	-1	1	11.1317967
Scale Factor			0.999979508
Elevation Adjust. Factor			0.9999331672
Combined Adjust. Factor			0.9999126766

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	10.7992416
Longitude	93	45	8.8800444
Ellipsoid Height (M):	397.368		
Geoid Height (M):	-28.529		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "6" DRIVEN FLUSH WITH GROUND IN NE CORNER OF HAYFIELD WEST OF TRANSMISSION LINES AND 63.75' WEST OF GATE STATION IS SOUTH OF A SHARP DRAW.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 10" OAK		33.56	110.1
MK # 2	GATE		19.43	63.7
MK # 3	WEST "H" IN BRACE POWER POLE		23.19	76.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440110	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,896.8029	
Easting (M)	243,765.1859	
Elevation (M)*	396.802	
Northing (SFT)	655,828.0942	
Easting (SFT)	799,752.9474	
Elevation (SFT)*	1,301.841	

Convergence Angle	-1	0	35.8151558
Scale Factor	0.999980004		
Elevation Adjust. Factor	0.9999377327		
Combined Adjust. Factor	0.9999177379		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	21.7135956
Longitude	93	44	8.1880116
Ellipsoid Height (M):	368.265		
Geoid Height (M):	-28.536		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "10" NORTH OF UNKNOWN COUNTY ROAD IN CATTLE PASTURE. STATION IS IN EAST SLOPE OF HILL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SOUTH FACE OF POLE		26.14	85.8
MK # 2	60D NAIL IN NW FACE OF 3" SWEET GUM		7.77	25.5
MK # 3	3" PIPE POST		8.79	28.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440112	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,430.5910	
Easting (M)	244,484.8480	
Elevation (M)*	441.842	
Northing (SFT)	654,298.5306	
Easting (SFT)	802,114.0388	
Elevation (SFT)*	1,449.610	

Convergence Angle	-1	0	18.8806664
Scale Factor			0.999979337
Elevation Adjust. Factor			0.9999306654
Combined Adjust. Factor			0.9999100038

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	7.0005504
Longitude	93	43	39.0859068
Ellipsoid Height (M):	413.307		
Geoid Height (M):	-28.535		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "12" SET FLUSH AND IN UTILITY LINE CUT EAST OF FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN EAST FACE OF 3" OAK TREE		11.06	36.3
MK # 2	60D NAIL IN WEST FACE OF 10" ELM TREE		12.54	41.1
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440113	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	200,096.4478	
Easting (M)	244,408.2517	
Elevation (M)*	402.376	
Northing (SFT)	656,483.0958	
Easting (SFT)	801,862.7391	
Elevation (SFT)*	1,320.129	

Convergence Angle	-1	0	20.9346958
Scale Factor			0.999980316
Elevation Adjust. Factor			0.9999368581
Combined Adjust. Factor			0.9999171753

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	7	28.5569436	
Longitude	93	43	42.6157788	
Ellipsoid Height (M):	373.833			
Geoid Height (M):	-28.540			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "13" FLUSH AND SOUTH OF PRIVATE ROAD AND SE OF LARGE CHICKEN BARNS AND OLD FARM HOUSE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN WEST FACE OF 6" ELM TREE		45.42	149.0
MK # 2	60D NAIL IN NORTH FACE OF TELEPHONE P OLE		27.95	91.7
MK # 3	SOUTH OF CENTER LINE OF TRACK ROAD		4.12	13.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440114	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,023.3470	
Easting (M)	245,022.8000	
Elevation (M)*	453.092	
Northing (SFT)	652,962.4309	
Easting (SFT)	803,878.9697	
Elevation (SFT)*	1,486.519	

Convergence Angle	-1	0	6.1992635
Scale Factor			0.999978756
Elevation Adjust. Factor			0.9999289001
Combined Adjust. Factor			0.9999076577

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	6	54.0954324	
Longitude	93	43	17.2927776	
Ellipsoid Height (M):	424.559			
Geoid Height (M):	-28.533			

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "14".

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SOUTH FACE OF 14" PINE TREE		35.46	116.4
MK # 2	60D NAIL IN SW FACE OF 5" ELM TREE		30.39	99.7
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440115	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,327.2409	
Easting (M)	245,362.0880	
Elevation (M)*	417.064	
Northing (SFT)	653,959.4562	
Easting (SFT)	804,992.1170	
Elevation (SFT)*	1,368.317	

Convergence Angle	0	59	58.4292517
Scale Factor	0.999979208		
Elevation Adjust. Factor	0.9999345533		
Combined Adjust. Factor	0.9999137627		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	4.1458440
Longitude	93	43	3.9399276
Ellipsoid Height (M):	388.527		
Geoid Height (M):	-28.537		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "15".

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN NORTH FACE OF 20" ELM TREE		30.97	101.6
MK # 2	60D NAIL IN SOUTH FACE OF UTILITY POLE		17.91	58.7
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440116	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,652.3369	
Easting (M)	245,931.4430	
Elevation (M)*	419.966	
Northing (SFT)	651,745.2086	
Easting (SFT)	806,860.0759	
Elevation (SFT)*	1,377.838	

Convergence Angle	0	59	44.9100859
Scale Factor	0.999978240		
Elevation Adjust. Factor	0.9999340980		
Combined Adjust. Factor	0.9999123394		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	42.5738952
Longitude	93	42	40.7070936
Ellipsoid Height (M):	391.432		
Geoid Height (M):	-28.534		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "16" AND SET FLUSH IN GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN 4" BRACE POST		8.66	28.4
MK # 2	60D NAIL IN POWER POLE		13.67	44.8
MK # 3	60D NAIL IN 4" BRACE POST			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440117	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,177.3790	
Easting (M)	245,915.8110	
Elevation (M)*	412.654	
Northing (SFT)	653,467.7843	
Easting (SFT)	806,808.7899	
Elevation (SFT)*	1,353.849	

Convergence Angle	0	59	45.4860864
Scale Factor	0.999979003		
Elevation Adjust. Factor	0.9999352453		
Combined Adjust. Factor	0.9999142497		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	59.5972296
Longitude	93	42	41.6969568
Ellipsoid Height (M):	384.116		
Geoid Height (M):	-28.538		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "17" SET FLUSH IN GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SE FACE OF UTILITY POLE		24.08	79.0
MK # 2	60D NAIL IN NORTH FACE OF UTILITY POLE		24.20	79.4
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440118	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,841.1270	
Easting (M)	246,763.5060	
Elevation (M)*	423.770	
Northing (SFT)	652,364.5975	
Easting (SFT)	809,589.9359	
Elevation (SFT)*	1,390.319	

Convergence Angle	0	59	25.6292095
Scale Factor	0.999978535		
Elevation Adjust. Factor	0.9999335011		
Combined Adjust. Factor	0.9999120375		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	49.1660820
Longitude	93	42	7.5726972
Ellipsoid Height (M):	395.231		
Geoid Height (M):	-28.539		

Location Description

STATION IS 5/8" REBAR WITH ALUMINUM CAP ON RIDGE SE OF US HIGHWAY 412 AND NORTH OF CHICKEN BARN.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN EAST FACE OF POLE		26.73	87.7
MK # 2	60D NAIL IN EAST FACE OF POLE		43.68	143.3
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440119	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,368.3920	
Easting (M)	246,762.9710	
Elevation (M)*	392.138	
Northing (SFT)	654,094.4661	
Easting (SFT)	809,588.1807	
Elevation (SFT)*	1,286.539	

Convergence Angle	0	59	25.8537341
Scale Factor	0.999979304		
Elevation Adjust. Factor	0.9999384645		
Combined Adjust. Factor	0.9999177698		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	6.2700600
Longitude	93	42	7.9585452
Ellipsoid Height (M):	363.595		
Geoid Height (M):	-28.543		

Location Description

STATION IS A 5/8" REBAR WITH ALUMINUM CAP STAMPED "19" DRIVEN FLUSH NORTH OF CHICKEN BARN AND SOUTH APPROX 40' FROM GRAVEL ROAD.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER		27.34	89.7
MK # 2	60D NAIL IN NORTH		15.77	51.7
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440120	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	198,823.2650	
Easting (M)	239,412.7390	
Elevation (M)*	459.331	
Northing (SFT)	652,305.9953	
Easting (SFT)	785,473.2945	
Elevation (SFT)*	1,506.988	

Convergence Angle	-1	2	16.6286392
Scale Factor	0.999978320		
Elevation Adjust. Factor	0.9999279212		
Combined Adjust. Factor	0.9999062427		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	44.3652804
Longitude	93	47	1.4370828
Ellipsoid Height (M):	430.831		
Geoid Height (M):	-28.397		

Location Description

STATION 0020 IS A 5/8" REBAR-ALUMINUM CAP STAMPED "20" DRIVEN FLUSH WITH GROUND EAST OF MADISON COUNTY ROAD #475, APPROXIMATELY 500' SOUTH OF THE INTERSECTION OF COUNTY ROAD #475 AND US HIGHWAY 412.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN SE FACE OF 18" OAK TREE		13.51	44.3
MK # 2	60D NAIL IN WEST FACE OF FENCE POST		27.46	90.1
MK # 3	60D NAIL IN NE FACE OF 16" WHITE OAK		13.66	44.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440121	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,293.9669	
Easting (M)	239,398.3560	
Elevation (M)*	445.399	
Northing (SFT)	653,850.2897	
Easting (SFT)	785,426.1063	
Elevation (SFT)*	1,461.280	

Convergence Angle	-1	2	17.1616558
Scale Factor			0.999979004
Elevation Adjust. Factor			0.9999301073
Combined Adjust. Factor			0.9999091127

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	6	59.6260044	
Longitude	93	47	2.3530776	
Ellipsoid Height (M):	416.979			
Geoid Height (M):	-28.399			

Location Description

STATION 0021 IS A 5/8" REBAR-ALUMINUM CAP STAMPED "21" DRIVEN FLUSH WITH GROUND, SW OF SECTION CORNER 19-20-30-29 AT BASE OF HILL, NORTH OF THE INTERSECTION OF US HIGHWAY 412 AND MADISON COUNTY #475.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SECTION CORNER 19-20-30-29			
MK # 2	60D NAIL IN N FACE OF 16" OAK TREE			
MK # 3	60D IN THE EAST FACE OF A HACKBERRY TREE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440201	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,016.4710	
Easting (M)	240,216.1480	
Elevation (M)*	481.832	
Northing (SFT)	652,939.8719	
Easting (SFT)	788,109.1456	
Elevation (SFT)*	1,580.810	

Convergence Angle	-1	1	58.0195833
Scale Factor			0.999978621
Elevation Adjust. Factor			0.9999243906
Combined Adjust. Factor			0.9999030132

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	6	51.1037352
Longitude	93	46	29.4572172
Ellipsoid Height (M):	439.662		
Geoid Height (M):	-28.518		

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON A 3/4" x 36" REBAR SET IN A CONCRETE POST APPROX 300' NORTH OF THE JCT OF US HIGHWAY 412 AND MADISON COUNTY ROAD 34 ON THE WEST SIDE OF HIGHWAY 34

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D IN WEST FACE OF CORNER POST	95	19.73	64.7
MK # 2	60D NAIL IN A POLE	185	8.57	28.1
MK # 3	NONE			

AZ Mark Station	440202A
Geodetic Azimuth	4 17 27.02
Grid Azimuth	3 15 29.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

ADS NUMBER 440001 AHTD NUMBER 440201

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440202A	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,599.0619	
Easting (M)	240,249.3120	
Elevation (M)*	468.186	
Northing (SFT)	654,851.2556	
Easting (SFT)	788,217.9511	
Elevation (SFT)*	1,536.040	

Convergence Angle	-1	1	57.4923527
Scale Factor			0.999979473
Elevation Adjust. Factor			0.9999265317
Combined Adjust. Factor			0.9999060063

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	7	10.0219080	
Longitude	93	46	28.5511656	
Ellipsoid Height (M):	439.662			
Geoid Height (M):	-28.523			

Location Description

MONUMENT IS AN AHTD 2 1/2" ALUMINUM CAP ON 3/4" x 36" REBAR SET IN CONCRETE POST ON EAST SIDE OF MADISON CO ROAD #43.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN SOUTH GATE POST	5	36.39	119.4
MK # 2	60D NAIL AND SHINER ON E EDGE OF PVM	330	7.06	23.1
MK # 3	60D NAIL AND SHINER ON E EDGE OF PVM	215	6.44	21.1

AZ Mark Station	440201
Geodetic Azimuth	184 17 26.5
Grid Azimuth	183 15 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

ADS NUMBER 440002A AHTD NUMBER 440202A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440203	7/1/1993	rial Data Servic	MADISON	412	9948

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	199,679.2110	
Easting (M)	244,019.9390	
Elevation (M)*	382.436	
Northing (SFT)	655,114.2114	
Easting (SFT)	800,588.7499	
Elevation (SFT)*	1,254.709	

Convergence Angle	-1	0	29.7987990
Scale Factor	0.999979690		
Elevation Adjust. Factor	0.9999399869		
Combined Adjust. Factor	0.9999196781		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	ADS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	7	14.8006128
Longitude	93	43	57.8488368
Ellipsoid Height (M):	353.901		
Geoid Height (M):	-28.535		

Location Description

MONUMENT IS AN AHTD ALUMINUM CAP APPROX 100' NORTH OF GRAVEL ROAD EAST SIDE OF HIGHWAY 23 AND SOUTH OF BELOW REFERENCED MONUMENT.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	REFLECTOR POST	170	27.38	89.8
MK # 2	PK-SHINER ON EAST SIDE OF HIGHWAY 23	205	5.94	19.5
MK # 3	PK-SHINER ON EAST SIDE OF HIGHWAY 23	335	5.11	16.7

AZ Mark Station	440004A
Geodetic Azimuth	348 59 22.8
Grid Azimuth	347 58 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

ADS NUMBER 440003 AHTD NUMBER 440203

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440204	10/20/2014	AHTD	MADISON	23	090423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	202,018.9620	0.0030
Easting (M)	243,758.3709	0.0030
Elevation (M)*	402.365	

Northing (SFT)	662,790.5445	
Easting (SFT)	799,730.5885	
Elevation (SFT)*	1,320.091	

Convergence Angle	-1	0	36.8443952
Scale Factor			0.999983193
Elevation Adjust. Factor			0.9999368599
Combined Adjust. Factor			0.9999200539

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	8	30.5509164
Longitude	93	44	9.9571704
Ellipsoid Height:			374.492
Grid Northing (Meters)			202,018.9609
Grid Easting (Meters)			243,758.3608

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	36	8	30.5509560	
Longitude	93	44	9.9567708	
Ellipsoid Height (M):			374.415	0.0040
Geoid Height (M):			-28.006	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 1.45 MILES TO THE MARK ON THE RIGHT, 36.2 FEET NORTHEAST OF THE CENTERLINE AND SOUTHWEST 4.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440204" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	440204A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOCS, ARLR
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090423 FROM A SINGLE 2ND ORDER NGS BM R 51.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440204A	10/20/2014	AHTD	MADISON	23	090423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	202,563.6413	0.0020
Easting (M)	243,630.5944	0.0020
Elevation (M)*	395.532	
Northing (SFT)	664,577.5465	
Easting (SFT)	799,311.3751	
Elevation (SFT)*	1,297.673	

Convergence Angle	-1	0	40.0417573
Scale Factor			0.999984026
Elevation Adjust. Factor			0.9999379320
Combined Adjust. Factor			0.9999219590

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	8	48.1467552
Longitude	93	44	15.4518468
Ellipsoid Height:			367.658
Grid Northing (Meters)			202,563.6416
Grid Easting (Meters)			243,630.5850

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	36	8	48.1467480	
Longitude	93	44	15.4514724	
Ellipsoid Height (M):			367.580	0.0040
Geoid Height (M):			-28.008	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO NORTH ON HIGHWAY 23 1.8 MILES TO THE MARK ON THE LEFT, 24.7 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 51 FEET OF THE CENTERLINE OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440204A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE	335	34.00	111.5
MK # 2				
MK # 3				

AZ Mark Station	440204
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOCS, ARLR
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090423 FROM A SINGLE 2ND ORDER NGS BM R 51.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440205	10/20/2014	AHTD	MADISON	23	090424

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	215,428.0579	0.0020
Easting (M)	241,583.4326	0.0020
Elevation (M)*	478.691	
Northing (SFT)	706,783.5533	
Easting (SFT)	792,594.9785	
Elevation (SFT)*	1,570.506	

Convergence Angle	-1	1	33.0476155
Scale Factor			1.000005858
Elevation Adjust. Factor			0.9999248834
Combined Adjust. Factor			0.9999307409

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	15	44.2666152
Longitude	93	45	46.5430752
Ellipsoid Height:			450.725
Grid Northing (Meters)			215,428.0550
Grid Easting (Meters)			241,583.4212

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	36	15	44.2667160	
Longitude	93	45	46.5426180	
Ellipsoid Height (M):			450.634	0.0040
Geoid Height (M):			-28.047	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO SOUTH ON HIGHWAY 23 0.35 MILES TO THE MARK ON THE RIGHT, 21.0 FEET SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 14.3 FEET OF FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440205" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY & LIGHT	303	26.20	86.0
MK # 2	TELEPHONE BOX	202	20.40	66.9
MK # 3				

AZ Mark Station	440205A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOCS, ARLR
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 3RD ORDER NGS BM X 51 RESET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440205A	10/20/2014	AHTD	MADISON	23	090424

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,020.6055	0.0020
Easting (M)	241,483.7923	0.0020
Elevation (M)*	494.216	
Northing (SFT)	708,727.6032	
Easting (SFT)	792,268.0752	
Elevation (SFT)*	1,621.439	

Convergence Angle	-1	1	35.6174294
Scale Factor			1.000006961
Elevation Adjust. Factor			0.9999224475
Combined Adjust. Factor			0.9999294079

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	16	3.4295772
Longitude	93	45	50.9592924
Ellipsoid Height:			466.237
Grid Northing (Meters)			216,020.6043
Grid Easting (Meters)			241,483.7818

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	36	16	3.4296240	
Longitude	93	45	50.9588712	
Ellipsoid Height (M):			466.148	0.0040
Geoid Height (M):			-28.050	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 12 AND STATE HIGHWAY 23, NORTH OF HUNTSVILLE, GO SOUTH ON HIGHWAY 23 93 FEET TO THE MARK ON THE RIGHT, 19.4 FEET WEST OF THE EDGE OF THE PAVEMENT AND EAST 9.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2014 440205A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	345	26.00	85.3
MK # 2				
MK # 3				

AZ Mark Station	440205
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOCS
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

ELEV. FROM DIGITAL LEVELS BY S5101 IN NOV. 2014 FOR JOB #090424 FROM A SINGLE 3RD ORDER NGS BM X 51 RESET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440206	10/1/2015	AHTD	MADISON	CR3415	090451

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	173,290.4220	0.0020
Easting (M)	256,732.4640	0.0020
Elevation (M)*		
Northing (SFT)	568,536.9928	
Easting (SFT)	842,296.4256	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	53	5.6746356	
Longitude	93	35	12.5444544	
Ellipsoid Height (M):	571.179	0.0050		
Geoid Height (M):	-27.854	0.0050		

Convergence Angle	0	55	24.1246369
Scale Factor	0.999949662		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23N AND STATE HIGHWAY 16E, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 9.5 MILES TO COUNTY ROAD 3415 ON THE LEFT, TURN LEFT (NORTH) AND GO 2.0 MILES TO A FORK IN THE ROAD, BEAR RIGHT AND GO 1.6 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 18.6 FEET OF THE CENTERLINE OF THE GRAVEL ROAD AND 15.6 FEET SOUTHWEST OF A FIELD ROAD ENTRANCE AND 4 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "440206 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF GATE	49	16.40	53.8
MK # 2				
MK # 3				

AZ Mark Station	440206A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440206A	10/1/2015	AHTD	MADISON	CR3415	090451

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	173,740.4985	0.0020
Easting (M)	256,878.7899	0.0020
Elevation (M)*		

Northing (SFT)	570,013.6188	
Easting (SFT)	842,776.4965	
Elevation (SFT)*		

Convergence Angle	0	55	20.8982551
Scale Factor	0.999950037		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	53	20.3526924	
Longitude	93	35	6.9998820	
Ellipsoid Height (M):	553.234			0.0050
Geoid Height (M):	-27.851			0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 23N AND STATE HIGHWAY 16E, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 9.5 MILES TO COUNTY ROAD 3415 ON THE LEFT, TURN LEFT (NORTH) AND GO 2.0 MILES TO A FORK IN THE ROAD, BEAR RIGHT AND GO 1.9 MILES TO THE MARK ON THE RIGHT, EAST 15.2 FEET OF THE CENTERLINE OF THE GRAVEL ROAD, 14 FEET SOUTH OF A FIELD ROAD ENTRANCE ON THE EAST SIDE OF THE ROAD AND 8.7 FEET WEST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "440206A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE	35	16.20	53.1
MK # 2	NORTH END OF GATE	305	53.70	176.2
MK # 3				

AZ Mark Station	440206
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440207	5/8/2017	AHTD	MADISON	SR-74	090430

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	188,451.5568	0.0020
Easting (M)	228,985.0790	0.0020
Elevation (M)*		

Northing (SFT)	618,278.1493	
Easting (SFT)	751,261.8800	
Elevation (SFT)*		

Convergence Angle	-1	6	14.5568665
Scale Factor			0.999964402
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	36	1	1.5901608
Longitude	93	53	50.3193372
Ellipsoid Height (M):	356.640		0.0040
Geoid Height (M):	-27.980		0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-74 AND SR-295, IN WESLEY, GO EAST ON SR-74 1.6 MILES TO THE STATION ON THE RIGHT. 22.2' SOUTH OF THE C/L OF THE HIGHWAY, 23' WEST OF C/L OF DRIVEWAY AND 16' NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "440207 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CMP	120	3.06	10.0
MK # 2	CP WITH TRANS	157	14.33	47.0
MK # 3				

AZ Mark Station	440207A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440207A	5/8/2017	AHTD	MADISON	SR-74	090430

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	188,237.1708	0.0020
Easting (M)	229,401.1697	0.0020
Elevation (M)*		

Northing (SFT)	617,574.7845	
Easting (SFT)	752,627.0043	
Elevation (SFT)*		

Convergence Angle	-1	6	4.7931273
Scale Factor			0.999964158
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	36	0	54.8953920
Longitude	93	53	33.5402448
Ellipsoid Height (M):	359.075	0.0040	
Geoid Height (M):	-27.977	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-74 AND SR-295, IN WESLEY, GO EAST ON SR-74 1.9 MILES TO THE STATION ON THE LEFT. 21.6' NORTH-EAST OF THE C/L OF THE HIGHWAY, 35.6' NORTH-WEST OF ASPHALT APRON AND 29' SOUTH-WEST OF A WITNESS POST. THE MARK IS A STANDARD 2½" CAP STAMPED "440207A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	440207
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440208	4/12/2021	ARDOT	MADISON	16	09X034, 090644

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	165,837.2592	0.0030
Easting (M)	249,800.6704	0.0030
Elevation (M)*		
Northing (SFT)	544,084.4079	
Easting (SFT)	819,554.3661	
Elevation (SFT)*		

Convergence Angle	0	58	2.0087539
Scale Factor	0.999944139		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	49	0.1645140
Longitude	93	39	43.8700320
Ellipsoid Height (M):	524.745		0.0140
Geoid Height (M):	-28.033		0.0140

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 23, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 FOR 5.4 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 22.9' OF THE3 C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 440208" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	218	4.69	15.4
MK # 2	RIGHT 0F WAY MARKER	14	19.08	62.6
MK # 3	RIGHT 0F WAY MARKER	8	19.75	64.8

AZ Mark Station	440208A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

STATIC DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS, ARFY, ARHR & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440208A	4/12/2021	ARDOT	MADISON	16	09X034

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	165,612.6857	0.0030
Easting (M)	250,221.0670	0.0030
Elevation (M)*		
Northing (SFT)	543,347.6197	
Easting (SFT)	820,933.6173	
Elevation (SFT)*		

Convergence Angle	0	57	52.1770875
Scale Factor	0.999944001		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	48	53.1086976
Longitude	93	39	26.9742060
Ellipsoid Height (M):	532.032		0.0140
Geoid Height (M):	-28.036		0.0140

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 23, NORTHEAST OF ST. PAUL, GO EAST ON HIGHWAY 16 FOR 5.7 MILES TO THE MARK ON THE RIGHT, SOUTHWEST 23' OF THE3 C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 440208A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	128	33.04	108.4
MK # 2				
MK # 3				

AZ Mark Station	440208
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

STATIC DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS SITES ARFS, ARFY, ARHR & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440209	10/20/2025	ARDOT	Madison	412	012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	204,593.7073	0.0010
Easting (M)	229,925.1289	0.0010
Elevation (M)*		

Northing (SFT)	671,237.8547	
Easting (SFT)	754,346.0271	
Elevation (SFT)*		

Convergence Angle	-1	5	59.9160559
Scale Factor			0.999986808
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID 18		
Latitude	36	9	45.8077104
Longitude	93	53	25.1589444
Ellipsoid Height (M):	410.474		0.0050
Geoid Height (M):	-28.013		0.0050

Location Description

To reach from the intersection of Hwy. 412 and Hwy 295 go West on Hwy. 412 for 0.05 miles to the station on the Right/North. The station is 39.0' North of the edge of pavement Hwy. 412, 23.8' West of the center of a paved field entrance, and 9.3' South of a 3barb fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "440209 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	ROW Marker	285	6.50	21.3
MK # 2	18" Corrogated Metal Pipe	168	5.20	17.1
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:36.0946 LG:93.5325

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440209A	10/20/2025	ARDOT	Madison	412	012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	204,561.3214	0.0010
Easting (M)	229,540.2266	0.0010
Elevation (M)*		
Northing (SFT)	671,131.6020	
Easting (SFT)	753,083.2268	
Elevation (SFT)*		

Convergence Angle	-1	6	8.8611622
Scale Factor	0.999986745		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID 18		
Latitude	36	9	44.5171788
Longitude	93	53	40.5312072
Ellipsoid Height (M):	399.756		0.0050
Geoid Height (M):	-28.013		0.0050

Location Description

To reach from the intersection of Hwy. 412 and Hwy 295 go West on Hwy. 412 for 0.3 miles to the station on the Right/North. The station is 38.7' North of the edge of pavement Hwy. 412. The station mark is a standard 2 1/2 in. aluminium cap stamped "440209A 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Metal Fence Post	337	1.20	3.9
MK # 2	ROW Marker	75	21.60	70.9
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:36.0945 LG:93.5341

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440210	10/20/2025	ARDOT	Madison	412	012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	204,207.0445	0.0010
Easting (M)	232,277.0086	0.0010
Elevation (M)*		

Northing (SFT)	669,969.2785	
Easting (SFT)	762,062.1524	
Elevation (SFT)*		

Convergence Angle	-1	5	4.9991262
Scale Factor			0.999986267
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID 18		
Latitude	36	9	34.7197716
Longitude	93	51	50.7836016
Ellipsoid Height (M):	414.001		0.0050
Geoid Height (M):	-28.012		0.0050

Location Description

To reach from the intersection of Hwy. 412 and Hwy 45 go West on Hwy. 412 for 0.1 miles to the station on the Left/South. The station is 14.6' South of the edge of pavement for Hwy. 412, 26.7' East of paved field entrance, and 45.0' North of a 1barb webwire fence . The station mark is a standard 2 1/2 in. aluminium cap stamped "440210 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	18" Corrogated Metal Pipe	252	4.00	13.1
MK # 2	Gate Post	244	18.00	59.1
MK # 3	ROW Marker	172	15.80	51.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:36.0946 LG:93.5325

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
440210A	10/20/2025	ARDOT	Madison	412	012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	204,405.0949	0.0010
Easting (M)	231,993.0793	0.0010
Elevation (M)*		

Northing (SFT)	670,619.0489	
Easting (SFT)	761,130.6277	
Elevation (SFT)*		

Convergence Angle	-1	5	11.6955446
Scale Factor	0.999986571		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:		
Elevation Datum:		
Geoid Datum:	GEOID 18	
Latitude	36 9 40.9696272	
Longitude	93 52 2.2914696	
Ellipsoid Height (M):	411.570	0.0050
Geoid Height (M):	-28.013	0.0050

Location Description

To reach from the intersection of Hwy. 412 and Hwy 45 go West on Hwy. 412 for 0.35 miles to the station on the Right/North. The station is 10.0' North of the edge of pavement for Hwy. 412, 54.3' South 1barb webwire fence . The station mark is a standard 2 1/2 in. aluminium cap stamped "440210A 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" Corregated Metal Pipe	96	37.90	124.3
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:36.0941 LG:93.5202

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450001	11/1/1999	AHTD	MARION	412	R90095,R90097

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	216,643.6870	
Easting (M)	352,338.8530	
Elevation (M)*	145.423	
Northing (SFT)	710,771.8298	
Easting (SFT)	1,155,965.0536	
Elevation (SFT)*	477.109	

Convergence Angle	0	18	31.3495689
Scale Factor	1.000010599		
Elevation Adjust. Factor	0.9999771789		
Combined Adjust. Factor	0.9999877777		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	17	5.5500252
Longitude	92	31	49.8663588
Ellipsoid Height (M):	117.035		
Geoid Height (M):	-28.361		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.45 KM (5.25 MI) TO THE WEST END OF THE BRIDGE OVER THE WHITE RIVER AND THE STATION ON THE RIGHT. THE STATION IS 9.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 1.55 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450001 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 828.120 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF METAL GUARD RAIL POST	300	4.22	13.9
MK # 2	PUNCH IN TOP OF METEL GUARD RAIL POST	71	4.31	14.2
MK # 3	SOUTHWEST CORNER OF BRIDGE	85	9.65	31.7

AZ Mark Station	030003
Geodetic Azimuth	102 26 35.19450
Grid Azimuth	102 45 06.70437

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450002	11/1/1999	AHTD	MARION	412	R90095

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,175.2050	
Easting (M)	348,817.0140	
Elevation (M)*	208.062	
Northing (SFT)	702,673.1517	
Easting (SFT)	1,144,410.4868	
Elevation (SFT)*	682.617	

Convergence Angle	0	19	53.1361288
Scale Factor	1.000005890		
Elevation Adjust. Factor	0.9999673494		
Combined Adjust. Factor	0.9999732392		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	44.8288740
Longitude	92	34	10.4174544
Ellipsoid Height (M):	179.681		
Geoid Height (M):	-28.356		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGWHAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 37.80 METERS EAST OF A PAVED ENTRANCE TO THE CURIOSITY SHOP, 11.90 METERS NORTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "450002 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 394.740 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	83	35.00	114.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	420002A
Geodetic Azimuth	280 48 49.36548
Grid Azimuth	281 08 42.42715

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450002A	11/1/1999	AHTD	MARION	412	R90095,R90097

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,251.5040	
Easting (M)	348,429.7310	
Elevation (M)*	211.705	
Northing (SFT)	702,923.4760	
Easting (SFT)	1,143,139.8758	
Elevation (SFT)*	694.569	

Convergence Angle	0	20	2.1743171
Scale Factor	1.000006028		
Elevation Adjust. Factor	0.9999667777		
Combined Adjust. Factor	0.9999728055		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	47.2312332
Longitude	92	34	25.9496796
Ellipsoid Height (M):	183.312		
Geoid Height (M):	-28.355		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGWHAY 62 AND STATE HIGHWAY 178, LOCATED ON THE WEST SIDE OF FLIPPIN, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.46 (2.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.40 METERS WEST OF A GRAVEL DRIVEWAY, 13.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.91 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "450002A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUD. THE SHOT DISTANCE IS 394.740 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	109	32.50	106.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	450002
Geodetic Azimuth	100 48 40.17834
Grid Azimuth	101 08 42.42715

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450003	11/1/1999	AHTD	MARION	412	R90095,R90097

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,233.8910	
Easting (M)	344,723.0100	
Elevation (M)*	240.193	
Northing (SFT)	702,865.6907	
Easting (SFT)	1,130,978.7420	
Elevation (SFT)*	788.033	

Convergence Angle	0	21	28.5783731
Scale Factor	1.000005953		
Elevation Adjust. Factor	0.9999623073		
Combined Adjust. Factor	0.9999682601		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	45.9337536
Longitude	92	36	54.4359924
Ellipsoid Height (M):	211.809		
Geoid Height (M):	-28.346		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.06KM (5.01 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.95 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 2.10 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450003 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.159 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH CORNER OF A BRICK BUILDING	15	13.20	43.3
MK # 2	CONCRETE R/W MARKER	254	8.62	28.3
MK # 3	NONE			

AZ Mark Station	450003A
Geodetic Azimuth	53 30 49.46926
Grid Azimuth	53 52 18.13443

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450003A	11/1/1999	AHTD	MARION	412	R90095,R90097

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,564.7430	
Easting (M)	345,176.2500	
Elevation (M)*	233.289	
Northing (SFT)	703,951.1610	
Easting (SFT)	1,132,465.7469	
Elevation (SFT)*	765.382	

Convergence Angle	0	21	18.0608215
Scale Factor	1.000006576		
Elevation Adjust. Factor	0.9999633907		
Combined Adjust. Factor	0.9999699664		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	56.7587880
Longitude	92	36	36.3614652
Ellipsoid Height (M):	204.885		
Geoid Height (M):	-28.348		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 8.66 KM (5.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 40.85 METERS NORTHEAST OF THE CENTER OF A CONCRETE DRIVEWAY TO THE KINGDOM HALL OF JEHOVAH'S WITNESS CHURCH, 11.75 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 0.41 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450003A 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 561.159 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	0.55 METER PERSIMMON TREE	180	24.65	80.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	450003
Geodetic Azimuth	233 31 00.16054
Grid Azimuth	233 52 18.13443

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450004	11/1/1999	AHTD	MARION	412	R90095

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,166.6520	
Easting (M)	341,325.8710	
Elevation (M)*	171.837	
Northing (SFT)	692,802.5908	
Easting (SFT)	1,119,833.2951	
Elevation (SFT)*	563.769	

Convergence Angle	0	22	47.2938750
Scale Factor	1.000000318		
Elevation Adjust. Factor	0.9999730339		
Combined Adjust. Factor	0.9999733519		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	5.7159384
Longitude	92	39	9.7094412
Ellipsoid Height (M):	143.479		
Geoid Height (M):	-28.337		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.06 KM (1.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.00 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 5.98 METERS SOUTHWEST OF A WITNESS POST SET IN A CHAIN LINK FENCE AROUND THE R.E. OFFICE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450004 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 527.485 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST OF A CHAIN LINK FENCE	44	6.12	20.1
MK # 2	CORNER POST OF A CHAIN LINK FENCE	126	30.55	100.2
MK # 3	NONE			

AZ Mark Station	450004A
Geodetic Azimuth	30 59 23.06583
Grid Azimuth	31 22 10.40985

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450004A	11/1/1999	AHTD	MARION	412	R90095,009916

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,617.0270	
Easting (M)	341,600.4520	
Elevation (M)*	181.338	
Northing (SFT)	694,280.1961	
Easting (SFT)	1,120,734.1496	
Elevation (SFT)*	594.940	

Convergence Angle	0	22	40.9646983
Scale Factor	1.000001128		
Elevation Adjust. Factor	0.9999715430		
Combined Adjust. Factor	0.9999726709		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	20.3860968
Longitude	92	38	58.8326820
Ellipsoid Height (M):	152.952		
Geoid Height (M):	-28.338		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO EAST ON U.S. HIGHWAYS 412 AND 62 FOR 3.62 KM (2.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.65 METERS SOUTH-SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.57 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62 AND 3.05 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "450004A 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	2	4.20	13.8
MK # 2	SOUTH END OF A CMP	56	14.15	46.4
MK # 3	NONE			

AZ Mark Station	450004
Geodetic Azimuth	210 59 29.49539
Grid Azimuth	211 22 10.40985

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450005	11/1/1999	AHTD	MARION	412	290095,090342,090556.00991(

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	211,110.0720	
Easting (M)	337,241.7100	
Elevation (M)*	235.985	
Northing (SFT)	692,616.9612	
Easting (SFT)	1,106,433.8436	
Elevation (SFT)*	774.227	

Convergence Angle	0	24	22.4553859
Scale Factor	1.000000167		
Elevation Adjust. Factor	0.9999629677		
Combined Adjust. Factor	0.9999631346		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	36	14	2.9714496
Longitude	92	41	53.2455360
Ellipsoid Height (M):	207.630		
Geoid Height (M):	-28.334		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, U.S. HIGHWAY 62 AND STATE HIGHWAY 14 SOUTH, LOCATED IN YELLVILLE, GO WEST ON U.S. HIGHWAYS 412 AND 62 FOR 2.03 KM (1.26 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAYS 412 AND 62, 7.12 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.56 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "450005 1999" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 489.058 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	325	9.60	31.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	450005A
Geodetic Azimuth	132 38 20.05055
Grid Azimuth	133 02 42.57201

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOMEPORT
Ref Mon # 2	N 37
Ref Mon # 3	TRI COUNTY

Comments

Old Elev. 235.993m or 774.2537' was updated with Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450006	1/10/2013	AHTD	MARION	14	090342

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	206,895.9036	0.0167
Easting (M)	339,329.2579	0.0148
Elevation (M)*	202.913	
Northing (SFT)	678,790.9771	
Easting (SFT)	1,113,282.7403	
Elevation (SFT)*	665.725	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	36	11	46.7250792	
Longitude	92	40	28.4931696	
Ellipsoid Height (M):	174.559			0.0155
Geoid Height (M):	-28.354			

Convergence Angle	0	23	33.1380578
Scale Factor	0.999992895		
Elevation Adjust. Factor	0.9999681573		
Combined Adjust. Factor	0.9999610525		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 14 AND STATE HIGHWAY 62/412, IN YELLVILLE, GO EAST ON HIGHWAY 14 2.15 MILES TO THE STATION MARK ON THE LEFT, EAST 21 FEET OF THE CENTERLINE OF THE HIGHWAY, 21 FEET SOUTH OF THE CENTERLINE OF A ASPHAULT DRIVE WAY, AND WEST 27 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450006 2013" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	DOUBLE COMBINATION POLE	165	3.96	13.0
MK # 2	WATER VALVE	16	23.38	76.7
MK # 3				

AZ Mark Station	450006A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOBR
Ref Mon # 2	P777
Ref Mon # 3	ARM3

Comments

Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37. **Note: Elev. from Digital Levels used as a constraint in Static Network Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450006A	1/10/2013	AHTD	MARION	14	090342,090556

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,491.6428	0.0166
Easting (M)	339,436.2449	0.0148
Elevation (M)*	207.251	
Northing (SFT)	680,745.4981	
Easting (SFT)	1,113,633.7468	
Elevation (SFT)*	679.955	

Convergence Angle	0	23	30.7411057	
Scale Factor			0.999993901	
Elevation Adjust. Factor			0.9999674767	
Combined Adjust. Factor			0.9999613779	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	36	12	6.0762816	
Longitude	92	40	24.3739812	
Ellipsoid Height (M):			178.893	0.0152
Geoid Height (M):			-28.358	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 14 AND STATE HIGHWAY 62/412, IN YELLVILLE, GO EAST ON HIGHWAY 14 1.8 MILES TO THE STATION MARK ON THE LEFT, EAST 29.5 FEET OF THE CENTERLINE OF THE HIGHWAY, AND WEST 14 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 450006A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	352	12.65	41.5
MK # 2				
MK # 3				

AZ Mark Station	450006
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MOBR
Ref Mon # 2	P777
Ref Mon # 3	ARM3

Comments

Elev. by S5112 in Jan. 2013 using Digital Levels from NGS 2nd Order BM N 37. **Note: Elev. from Digital Levels used as a constraint in Static Network Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450007	4/7/2015	AHTD	MARION	178	090422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	215,932.4860	0.0020
Easting (M)	345,999.2958	0.0020
Elevation (M)*	197.119	

Northing (SFT)	708,438.4978	
Easting (SFT)	1,135,166.0230	
Elevation (SFT)*	646.715	

Convergence Angle	0	20	59.0689425
Scale Factor	1.000009168		
Elevation Adjust. Factor	0.9999690665		
Combined Adjust. Factor	0.9999782342		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	16	41.2954248
Longitude	92	36	3.7237140
Ellipsoid Height (M):	168.690		0.0200
Geoid Height (M):	-28.432		0.0200

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO WEST ON HIGHWAY 178 0.35 MILES TO THE MARK ON THE RIGHT, 61.4 FEET WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450007 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD SIGNAL POLE	91	39.50	129.6
MK # 2	NEAREST RAIL	180	27.50	90.2
MK # 3	SOUTHEAST CORNER RR STATION	339	80.70	264.8

AZ Mark Station	450007A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN +0.0114'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450007A	4/7/2015	AHTD	MARION	178	090422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,050.7023	0.0030
Easting (M)	346,536.7332	0.0030
Elevation (M)*	195.709	
Northing (SFT)	708,826.3458	
Easting (SFT)	1,136,929.2655	
Elevation (SFT)*	642.089	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	16	45.2364996	
Longitude	92	35	42.2185920	
Ellipsoid Height (M):	167.274			0.0200
Geoid Height (M):	-28.435			0.0200

Convergence Angle	0	20	46.5551308
Scale Factor	1.000009400		
Elevation Adjust. Factor	0.9999692878		
Combined Adjust. Factor	0.9999786875		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO WEST ON HIGHWAY 178 0.25 MILES TO ALFORD STREET AND TURN LEFT (EAST) AND GO 0.3 MILES TO THE MARK ON THE RIGHT, 91.7 FEET SOUTH OF THE CENTERLINE OF THE STREET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450007A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER 1-S-F	200	55.30	181.4
MK # 2	NORTHWEST CORNER 1-S-F	155	60.00	196.9
MK # 3	SOUTH OF NEAREST RAIL	180	13.00	42.7

AZ Mark Station	450007
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0024'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450008	4/7/2015	AHTD	MARION	178	090422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	219,692.8540	0.0030
Easting (M)	345,511.2605	0.0020
Elevation (M)*	200.664	
Northing (SFT)	720,775.6385	
Easting (SFT)	1,133,564.8605	
Elevation (SFT)*	658.346	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	18	43.1913852	
Longitude	92	36	24.2064504	
Ellipsoid Height (M):	172.238			0.0200
Geoid Height (M):	-28.418			0.0200

Convergence Angle	0	21	10.9878289
Scale Factor	1.000016501		
Elevation Adjust. Factor	0.9999685102		
Combined Adjust. Factor	0.9999850107		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO EAST ON HIGHWAY 178 2.1 MILES TO THE MARK ON THE LEFT, 56.1 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, SOUTH 15.4 FEET OF A PRIVATE ASPHAULT DRIVE AND 4.4 FEET NORTH OF A PIPE FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450008 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	19	29.80	97.8
MK # 2				
MK # 3				

AZ Mark Station	450008
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0267'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450008A	4/7/2015	AHTD	MARION	178	090422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	220,269.7686	0.0030
Easting (M)	345,746.7089	0.0030
Elevation (M)*	207.255	
Northing (SFT)	722,668.3991	
Easting (SFT)	1,134,337.3274	
Elevation (SFT)*	679.968	

Convergence Angle	0	21	5.5785349
Scale Factor	1.000017661		
Elevation Adjust. Factor	0.9999674760		
Combined Adjust. Factor	0.9999851365		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	19	1.9543512
Longitude	92	36	14.9105196
Ellipsoid Height (M):	178.829	0.0200	
Geoid Height (M):	-28.418	0.0200	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 178 AND STATE HIGHWAY 202W, NORTH OF FLIPPIN, GO EAST ON HIGHWAY 178 2.5 MILES TO THE MARK ON THE RIGHT, 42.1 FEET EAST OF THE CENTERLINE OF THE HIGHWAY AND 5 FEET WEST OF A FENCE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "450008A 2015" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH A GUY	3	57.90	190.0
MK # 2				
MK # 3				

AZ Mark Station	450008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS BY S5112 IN APRIL 2015 FOR JOB #090422 FROM AHTD GPS #450003 WHICH IS BASED ON 2ND ORDER NGS BM N 37. STATIC INCLUDED A CONSTRAINT ON 2ND ORDER NGS BM C 39 FOR A VERTICAL CHECK THAT CHECKED WITHIN -0.0235'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450009	5/31/2023	ARDOT	MARION	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	211,255.9836	0.0010
Easting (M)	321,227.0303	0.0010
Elevation (M)*	325.362	0.0026
Northing (SFT)	693,095.6729	
Easting (SFT)	1,053,892.3486	
Elevation (SFT)*	1,067.458	

Convergence Angle	0	30	35.6577580
Scale Factor	1.000000199		
Elevation Adjust. Factor	0.9999489427		
Combined Adjust. Factor	0.9999491417		

SUPERCEDED CONTROL

Horizontal Datum	NAD83(2011)		
Latitude	36	14	3.5513376
Longitude	92	52	34.5979128
Ellipsoid Height:	296.943		
Grid Northing (Meters)	211,255.9842		
Grid Easting (Meters)	321,227.0296		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	14	3.5513160	
Longitude	92	52	34.5978840	
Ellipsoid Height (M):	296.950			0.0010
Geoid Height (M):	-28.404			

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 ARKANSAS AND STATE HWY 125 SOUTH NEAR PYATT, MARION COUNTY ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 62/412 FOR 1.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 450009, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS FEET NORTH OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412, 57 FEET WEST OF THE CENTERLINE OF A CONCRETE DRIVEWAY LEADING TO A ONE STORY BLOCK BUILDING .

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END 18" CORIGATED META PIPEL MP	118	9.14	30.0
MK # 2	LIGHT POLE	10	30.18	99.0
MK # 3	STEEL FENCE CORNER	252	36.88	121.0

AZ Mark Station	450009A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450009A	5/31/2023	ARDOT	MARION	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	211,357.4767	0.0010
Easting (M)	321,688.8695	0.0010
Elevation (M)*	325.275	0.0031
Northing (SFT)	693,428.6548	
Easting (SFT)	1,055,407.5660	
Elevation (SFT)*	1,067.171	

Convergence Angle	0	30	24.9169429
Scale Factor			1.000000387
Elevation Adjust. Factor			0.9999489564
Combined Adjust. Factor			0.9999493434

SUPERCEDED CONTROL

Horizontal Datum			NAD83(2011)
Latitude	36	14	6.9769140
Longitude	92	52	16.1397156
Ellipsoid Height:			296.853
Grid Northing (Meters)			211,357.4773
Grid Easting (Meters)			321,688.8685

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	14	6.9768960
Longitude	92	52	16.1396760
Ellipsoid Height (M):	296.860		0.0000
Geoid Height (M):	-28.405		

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 ARKANSAS AND STATE HWY 125 SOUTH NEAR PYATT, MARION COUNTY ARKANSAS. TRAVEL WEST ALONG U.S. HIGHWAY 62/412 FOR 1.2 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 450009, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS FEET SOUTH OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412 AT THE TOP OF THE EMBANKMENT, 33 FEET NORTH OF THE CENTERLINE OF A GRAVEL DRIVEWAY IN FRONT OF A BLUE METAL BUILDING .

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	204	5.49	18.0
MK # 2	TELEPHONE PEDESTAL	219	7.01	23.0
MK # 3	COMBINATION POLE	345	27.74	91.0

AZ Mark Station	450009
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450010	5/31/2023	ARDOT	MARION	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,164.2569	0.0010
Easting (M)	324,098.6538	0.0010
Elevation (M)*	256.996	0.0028
Northing (SFT)	696,075.5662	
Easting (SFT)	1,063,313.6667	
Elevation (SFT)*	843.161	

Convergence Angle	0	29	28.9247607
Scale Factor	1.000001875		
Elevation Adjust. Factor	0.9999596706		
Combined Adjust. Factor	0.9999615455		

SUPERCEDED CONTROL

Horizontal Datum	NAD83(2011)		
Latitude	36	14	33.8314236
Longitude	92	50	39.9166080
Ellipsoid Height:	228.589		
Grid Northing (Meters)	212,164.2570		
Grid Easting (Meters)	324,098.6511		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	14	33.8314200	
Longitude	92	50	39.9165000	
Ellipsoid Height (M):	228.590			0.0050
Geoid Height (M):	-28.419			

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 ARKANSAS AND STATE HWY 125 SOUTH NEAR PYATT, MARION COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 62/412 FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 450010, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS FEET 62 FEET NORTH OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412 AT THE TOP OF THE EMBANKMENT, 71 FEET WEST OF THE CENTERLINE OF A ASPHALT DRIVEWAY LEADING TO A ONE STORY BLOCK CHURCH.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	57	26.52	87.0
MK # 2	SOUTHWEST CORNER OF BLOCK CHURCH BUILDING	337	26.21	86.0
MK # 3				

AZ Mark Station	450010A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450010A	5/31/2023	ARDOT	MARION	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,363.4990	0.0010
Easting (M)	324,382.6181	0.0010
Elevation (M)*	249.251	0.0027
Northing (SFT)	696,729.2463	
Easting (SFT)	1,064,245.3062	
Elevation (SFT)*	817.750	

Convergence Angle	0	29	22.3468053
Scale Factor			1.000002240
Elevation Adjust. Factor			0.9999608860
Combined Adjust. Factor			0.9999631259

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	14	40.3740600
Longitude	92	50	28.6122120
Ellipsoid Height (M):	220.846		0.0050
Geoid Height (M):	-28.420		

Location Description

FROM THE INTERSECTION OF U.S. HIGHWAY 62/412 AND ARKANSAS STATE HWY 125 SOUTH NEAR PYATT, MARION COUNTY ARKANSAS. TRAVEL EAST ALONG U.S. HIGHWAY 62/412 FOR MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 2.5" ARDOT GPS CAP STAMPED 450010A, 2023, SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR, 4 FT. IN LENGTH. THE STATION IS 45 FEET SOUTH EAST OF THE CENTERLINE OF U. S. HIGHWAY 62/ 412 AT THE TOP OF THE EMBANKMENT, 14 FEET NORTH WEST OF THE CENTERLINE OF A GRAVEL DRIVEWAY.

SUPERCEDED CONTROL

Horizontal Datum			NAD83(2011)
Latitude	36	14	40.3741068
Longitude	92	50	28.6123452
Ellipsoid Height:			220.837
Grid Northing (Meters)			212,363.5005
Grid Easting (Meters)			324,382.6147

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	82	21.33	70.0
MK # 2	COMBINATION POLE	57	23.77	78.0
MK # 3	COMBINATION POLE	247	53.34	175.0

AZ Mark Station	4500010
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV BASED ON DIGITAL LEVELS FROM TBM 906 AND PN:20 IN JOB 090581 BY CREW S5101 DURING JOB 090640 IN JUNE 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450011	8/16/2023	ARDOT	Marion	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,613.4196	0.0010
Easting (M)	328,381.7508	0.0010
Elevation (M)*	301.629	0.0037
Northing (SFT)	700,830.0275	
Easting (SFT)	1,077,365.7941	
Elevation (SFT)*	989.593	

Convergence Angle	0	27	49.3825331
Scale Factor	1.000004586		
Elevation Adjust. Factor	0.9999526669		
Combined Adjust. Factor	0.9999572527		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	36	15	22.0030560
Longitude	92	47	48.8520960
Ellipsoid Height (M):	273.210		0.0060
Geoid Height (M):	-28.418		

Location Description

FROM THE INTERSECTION OF U.S. HWY. 62/412 AND MARION COUNTY ROAD 3026 LOCATED IN MARION COUNTY ARKANSAS TRAVEL NORTH ALONG MARION COUNTY ROAD 3026 0.4 MILES TO THE STATION ON THE RIGHT THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 450011, 2023 SET ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH THE STATON IS 31 FEET (9.44M) EAST OF THE CENTERLINE OF MARION COUNTY ROAD 3026 12 FEET (3.66M)WEST OF A BARBED WIRE FENCE AND 63 FEET (19.20M) NORTH OF THE CENTER OF A GRAVEL DRIVEWAY

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE PEDESTAL	219	7.01	23.0
MK # 2	PIPE FENCE CORNER	185	13.71	45.0
MK # 3				

AZ Mark Station	450011A
Geodetic Azimuth	20°48'07.4"
Grid Azimuth	21°15'57.7"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450011A	8/16/2023	ARDOT	Marion	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	214,032.0418	0.0010
Easting (M)	328,544.6795	0.0010
Elevation (M)*	306.579	0.0009
Northing (SFT)	702,203.4571	
Easting (SFT)	1,077,900.3360	
Elevation (SFT)*	1,005.834	

Convergence Angle	0	27	45.6637159
Scale Factor	1.000005363		
Elevation Adjust. Factor	0.9999518901		
Combined Adjust. Factor	0.9999572529		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	15	35.6266440
Longitude	92	47	42.4612680
Ellipsoid Height (M):	278.161		0.0060
Geoid Height (M):	-28.413		

Location Description

FROM THE INTERSECTION OF U.S. HWY. 62/412 AND ARKANSAS STATE HWY. 125 NORTH LOCATED IN MARION COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HWY. 62/412 0.3 MILES TO THE STATION ON THE RIGHT THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 450012, 2023 SET ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH THE STATON IS 50 FEET (15.24M) NORTH OF THE CENTERLINE OF U.S. HWY. 62/412 AND 48 FEET (14.63M) WEST OF THE CENTER OF A GRAVEL DRIVEWAY

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	315	7.31	24.0
MK # 2	COMBINATION POLE WITH LIGHT	330	8.53	28.0
MK # 3	TELEPHONE PEDESTAL	212	36.27	119.0

AZ Mark Station	450011
Geodetic Azimuth	200°48'07.4"
Grid Azimuth	201°15'57.7"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450012	8/16/2023	ARDOT	Marion	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,099.2175	0.0010
Easting (M)	332,152.4456	0.0010
Elevation (M)*	197.741	0.0033
Northing (SFT)	699,143.0161	
Easting (SFT)	1,089,736.8153	
Elevation (SFT)*	648.757	

Convergence Angle	0	26	21.4013332
Scale Factor			1.000003695
Elevation Adjust. Factor			0.9999689689
Combined Adjust. Factor			0.9999726638

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	15	6.2853480	
Longitude	92	45	17.6554440	
Ellipsoid Height (M):	169.357			0.0070
Geoid Height (M):	-28.438			

Location Description

FROM THE INTERSECTION OF U.S. HWY. 62/412 AND ARKANSAS STATE HWY. 125 NORTH LOCATED IN MARION COUNTY ARKANSAS TRAVEL WEST ALONG U.S. HWY. 62/412 0.3 MILES TO THE STATION ON THE RIGHT THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 450012, 2023 SET ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH THE STATON IS 50 FEET (15.24M) NORTH OF THE CENTERLINE OF U.S. HWY. 62/412 AND 48 FEET (14.63M) WEST OF THE CENTER OF A GRAVEL DRIVEWAY

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	320	9.14	30.0
MK # 2	COMBINATION POLE	64	31.70	104.0
MK # 3				

AZ Mark Station	450012A
Geodetic Azimuth	69°12'14.2"
Grid Azimuth	69°38'36.1"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
450012A	8/16/2023	ARDOT	Marion	62/412	090640

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,302.5375	0.0010
Easting (M)	332,700.4286	0.0010
Elevation (M)*	200.576	0.0034
Northing (SFT)	699,810.0751	
Easting (SFT)	1,091,534.6562	
Elevation (SFT)*	658.057	

Convergence Angle	0	26	8.6653954
Scale Factor	1.000004076		
Elevation Adjust. Factor	0.9999685241		
Combined Adjust. Factor	0.9999725999		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	15	13.0172040
Longitude	92	44	55.7685960
Ellipsoid Height (M):	172.187		0.0070
Geoid Height (M):	-28.438		

Location Description

FROM THE INTERSECTION OF U.S. HWY. 62/412 AND ARKANSAS STATE HWY. 125 NORTH LOCATED IN MARION COUNTY ARKANSAS TRAVEL EAST ALONG U.S. HWY. 62/412 95 FEET (28.9M) TO THE STATION ON THE RIGHT THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 450012A, 2023 SET ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH THE STATON IS 24 FEET (7.30M) NORTH OF THE CENTERLINE OF U.S. HWY. 62/412

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST BRIDGE CORNER	110	1.52	5.0
MK # 2	WEST END OF GUARD RAIL	240	4.57	15.0
MK # 3				

AZ Mark Station	450012
Geodetic Azimuth	249°12'14.2"
Grid Azimuth	249°38'36.1"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARM3
Ref Mon # 3	P777

Comments

ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM NGS BM L37 DURING JOB 090640 BY CREW S5101 IN SEPT. 2023.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460001	4/14/1994	AHTD	Miller	82	030349, RX0018,030646

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	486,420.9245	0.0010
Easting (M)	216,846.0492	0.0010
Elevation (M)*	115.569	
Northing (SFT)	1,595,865.9831	
Easting (SFT)	711,435.7464	
Elevation (SFT)*	379.161	

Convergence Angle	-1	6	8.5757857
Scale Factor			0.999973730
Elevation Adjust. Factor			0.9999818639
Combined Adjust. Factor			0.9999555943

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	33	25	47.8389000
Longitude	93	58	10.6597488
Ellipsoid Height:			
Grid Northing (Meters)			486,420.9271
Grid Easting (Meters)			216,846.0290

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	25	47.8388280
Longitude	93	58	10.6589640
Ellipsoid Height (M):	88.661		0.0000
Geoid Height (M):	-26.899		

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 3.21 KM (2.00 MILES) TO THE STATION ON THE LEFT. THE STATION IS 17.5 METERS NORTH OF THE CENTERLINE OF HWY. 82, 41.0 METERS WEST OF A CONCRETE DRIVEWAY, 52.10 METERS EAST OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	283	14.90	48.9
MK # 2	fire hydrant	270	45.30	148.6
MK # 3				

AZ Mark Station	460040
Geodetic Azimuth	94 36 30
Grid Azimuth	95 42 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	460026,460026A
Ref Mon # 2	ARHP, B 307
Ref Mon # 3	TXMA, 460001

Comments

3-wire levels ran by crew S5102 in October 07 from 1st order NGS marks G307, B307, & C307. DIGITAL LEVELS WERE RAN FROM NGS BM K 307 BY S5102 DURING JOB 030646 IN MARCH 2025.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460001A	4/13/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	486,357.1511	
Easting (M)	217,527.2530	
Elevation (M)*	107.201	
Northing (SFT)	1,595,656.7532	
Easting (SFT)	713,670.6626	
Elevation (SFT)*	351.709	

Convergence Angle	-1	5	53.7926140
Scale Factor	0.999973814		
Elevation Adjust. Factor	0.9999831770		
Combined Adjust. Factor	0.9999569914		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	25	46.1937972
Longitude	93	57	44.2458540
Ellipsoid Height (M):	79.717		
Geoid Height (M):	-27.484		

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 3.89 KM (2.41 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 17.0 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 28.5 METERS EAST OF A PAVED DRIVEWAY AND 1.70 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	73	23.70	77.8
MK # 2	PIPELINE CROSSING SIGN	233	4.50	14.8
MK # 3	SOUTHWEST CORNER OF RC BOX HEADW ALL	58	33.70	110.6

AZ Mark Station	460001
Geodetic Azimuth	274 17 01.35193
Grid Azimuth	275 22 55.26042

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303
Ref Mon # 3	GARLAND

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460002	4/14/1994	AHTD	MILLER	82	RX0018,030497,030646

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	486,308.2567	0.0030
Easting (M)	219,957.4608	0.0030
Elevation (M)*	120.047	
Northing (SFT)	1,595,496.3389	
Easting (SFT)	721,643.7693	
Elevation (SFT)*	393.856	

Convergence Angle	-1	5	1.1278358
Scale Factor			0.999973818
Elevation Adjust. Factor			0.9999811610
Combined Adjust. Factor			0.9999549795

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	25	46.1211132
Longitude	93	56	10.1365440
Ellipsoid Height:			92.575
Grid Northing (Meters)			486,308.6261
Grid Easting (Meters)			219,957.8060

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	33	25	46.1089128	
Longitude	93	56	10.1496336	
Ellipsoid Height (M):			93.162	0.0050
Geoid Height (M):			-26.896	0.0050

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 6.46 KM (4.02 MILES) TO THE STATION ON THE LEFT. THE STATION IS 15.2 METERS NORTH OF THE CENTERLINE OF HWY. 82, 32 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 28.4 METERS SOUTHWEST OF THE DOOR OF A ONE STORY FRAME HOUSE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 12" PERSIMMON TREE	57	17.00	55.8
MK # 2	RIGHT OF WAY MONUMENT	274	22.30	73.2
MK # 3	NBC IN 12" DOUBLE GUM TREE	18	22.30	73.2

AZ Mark Station	460002A
Geodetic Azimuth	91 23 07.667279
Grid Azimuth	92 28 08.690259

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (HOPEPORT)
Ref Mon # 2	ARHP (GARLAND)
Ref Mon # 3	TXMA (X 303)

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM&ARHP. ELEV UPDATED BASED ON DIGITAL LEVEL RUN FROM NGS BMS K307 AND D307 BY CREW S5102 DURING JOB 030646 IN MARCH OF 2025

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460002A	4/14/1994	AHTD	MILLER	82	RX0018,030497,030646

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	486,283.5375	0.0030
Easting (M)	220,530.9259	0.0030
Elevation (M)*	110.637	
Northing (SFT)	1,595,415.2393	
Easting (SFT)	723,525.2127	
Elevation (SFT)*	362.982	

Convergence Angle	-1	4	48.6949546
Scale Factor			0.999973841
Elevation Adjust. Factor			0.9999826377
Combined Adjust. Factor			0.9999564792

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	25	45.6700764
Longitude	93	55	47.9229276
Ellipsoid Height:			83.177
Grid Northing (Meters)			486,283.8981
Grid Easting (Meters)			220,531.2650

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	33	25	45.6581676	
Longitude	93	55	47.9357904	
Ellipsoid Height (M):			83.730	0.0050
Geoid Height (M):			-26.898	0.0050

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 7.03 KM (4.37 MILES) TO THE STATION ON THE LEFT. THE STATION 15 METERS NORTH OF THE CENTERLINE OF HWY. 82, 25.5 METERS EAST OF THE CENTER OF A DRIVEWAY, 18.30 METERS WEST OF THE CENTER OF A DRIVEWAY, 20.3 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A ONE STORY FRAME HOUSE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN LIGHT POLE	309	12.30	40.4
MK # 2	TELEPHONE JUNCTION BOX	73	25.40	83.3
MK # 3	NONE			

AZ Mark Station	460002
Geodetic Azimuth	271 23 19.90498
Grid Azimuth	272 28 08.69026

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (HOPEPORT)
Ref Mon # 2	ARHP (GARLAND)
Ref Mon # 3	TXMA (X 303)

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460003	4/14/1994	AHTD	MILLER	82	RX0018,030497,030646

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	486,168.7658	0.0030
Easting (M)	224,152.7361	0.0030
Elevation (M)*	84.076	
Northing (SFT)	1,595,038.6925	
Easting (SFT)	735,407.7684	
Elevation (SFT)*	275.840	

Convergence Angle	-1	3	30.1904985
Scale Factor			0.999973919
Elevation Adjust. Factor			0.9999868059
Combined Adjust. Factor			0.9999607252

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	25	44.1386184
Longitude	93	53	27.6584892
Ellipsoid Height:			56.629
Grid Northing (Meters)			486,169.1081
Grid Easting (Meters)			224,153.0860

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	33	25	44.1273000	
Longitude	93	53	27.6717876	
Ellipsoid Height (M):			57.170	0.0050
Geoid Height (M):			-26.903	0.0050

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 10.734 KM (6.67 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.5 METERS NORTH OF THE INTERSECTION OF CO. RD. NO. 15 (LEADING SOUTH) WITH HWY. 82 AND 1.90 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	72	8.70	28.5
MK # 2	PLASTIC GAS LINE MARKING SIGN	272	18.00	59.1
MK # 3	NONE			

AZ Mark Station	460003A
Geodetic Azimuth	91 13 57.39431
Grid Azimuth	92 17 27.514887

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (HOPEPORT)
Ref Mon # 2	ARHP (GARLAND)
Ref Mon # 3	TXMA (X 303)

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460003A	4/14/1994	AHTD	MILLER	82	RX0018,030497,030646

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	486,154.1075	0.0030
Easting (M)	224,519.8010	0.0030
Elevation (M)*	85.523	

Northing (SFT)	1,594,990.6010	
Easting (SFT)	736,612.0471	
Elevation (SFT)*	280.587	

Convergence Angle	-1	3	22.2330288
Scale Factor			0.999973932
Elevation Adjust. Factor			0.9999865788
Combined Adjust. Factor			0.9999605112

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	25	43.8818448
Longitude	93	53	13.4392164
Ellipsoid Height:			58.073
Grid Northing (Meters)			486,154.4211
Grid Easting (Meters)			224,520.1930

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	33	25	43.8714336	
Longitude	93	53	13.4541672	
Ellipsoid Height (M):			58.616	0.0050
Geoid Height (M):			-26.903	0.0050

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 11.09 KM (6.89 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.4 METERS NORTH OF THE CENTERLINE OF HWY. 82 AND 1.40 METERS SOUTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NOAA BENCH MARK # D 307	84	35.00	114.8
MK # 2	TELEPHONE JUNCTION BOX	268	42.90	140.7
MK # 3	NONE			

AZ Mark Station	460003
Geodetic Azimuth	271 14 05.22773
Grid Azimuth	272 17 27.51488

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (HOPEPORT)
Ref Mon # 2	ARHP (GARLAND)
Ref Mon # 3	TXMA (X 303)

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN DEC. 2017 FOR JOB #030497 FROM 1ST ORDER NGS BM D 307 & CHECKED AGAINST STATIC DERIVED ELEV. CONSTRAINING ORTHOMETRIC HTS. ON ARDOT CORS SITES ARCM & ARHP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460004	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	485,605.8072	
Easting (M)	225,990.4090	
Elevation (M)*	81.991	
Northing (SFT)	1,593,191.7191	
Easting (SFT)	741,436.8669	
Elevation (SFT)*	268.999	

Convergence Angle	-1	2	50.1584963
Scale Factor	0.999974795		
Elevation Adjust. Factor	0.9999871331		
Combined Adjust. Factor	0.9999619284		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	25	26.9533272
Longitude	93	52	16.1465628
Ellipsoid Height (M):	54.549		
Geoid Height (M):	-27.442		

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 12.67 KM (7.87 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.6 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 21.5 METERS WEST OF A DRIVEWAY AND 1.28 METERS NORTH OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	277	17.80	58.4
MK # 2	CENTER OF DOUBLE GATE TO FIELD	100	21.50	70.5
MK # 3	NONE			

AZ Mark Station	460004A
Geodetic Azimuth	284 15 32
Grid Azimuth	285 18 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE PORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460004A	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	485,709.5322	
Easting (M)	225,611.4120	
Elevation (M)*	82.567	
Northing (SFT)	1,593,532.0236	
Easting (SFT)	740,193.4409	
Elevation (SFT)*	270.889	

Convergence Angle	-1	2	58.4093194
Scale Factor	0.999974634		
Elevation Adjust. Factor	0.9999870427		
Combined Adjust. Factor	0.9999616770		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	25	30.0944820
Longitude	93	52	30.8883180
Ellipsoid Height (M):	55.122		
Geoid Height (M):	-27.445		

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 12.27 KM (7.63 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.9 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 10.0 METERS EAST OF A DRIVEWAY AND 0.85 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	117	8.90	29.2
MK # 2	TELEPHONE JUNCTION BOX	283	21.55	70.7
MK # 3	NONE			

AZ Mark Station	460004
Geodetic Azimuth	104 15 24
Grid Azimuth	105 18 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	460004
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

THE COORDINATES ON THIS STATION WERE ARRIVED AT BY SOLAR OBSERVATION.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460005	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	484,846.9141	
Easting (M)	228,186.5020	
Elevation (M)*	76.005	
Northing (SFT)	1,590,701.9173	
Easting (SFT)	748,641.8820	
Elevation (SFT)*	249.360	

Convergence Angle	-1	2	2.2908082
Scale Factor			0.999975996
Elevation Adjust. Factor			0.9999880725
Combined Adjust. Factor			0.9999640688

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	25	3.6190848
Longitude	93	50	50.6213088
Ellipsoid Height (M):	48.580		
Geoid Height (M):	-27.425		

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 15.079 KM (9.37 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.9 METERS NORTH OF THE CENTERLINE OF HWY. 82, 14.0 METERS WEST OF THE CENTER OF A DRIVEWAY, 28.9 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A ONE STORY FRAME HOUSE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN POWER POLE	276	30.10	98.8
MK # 2	NBC IN FENCE CORNER W/RAILROAD TIE P OSTS	90	18.60	61.0
MK # 3	NONE			

AZ Mark Station	G 310 NOAA
Geodetic Azimuth	83 26 38.004366
Grid Azimuth	84 28 40.21834

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460006	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	484,259.8361	
Easting (M)	232,174.3420	
Elevation (M)*	70.634	
Northing (SFT)	1,588,775.8123	
Easting (SFT)	761,725.3204	
Elevation (SFT)*	231.738	

Convergence Angle	-1	0	35.6893273
Scale Factor	0.999976866		
Elevation Adjust. Factor	0.9999889153		
Combined Adjust. Factor	0.9999657816		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	46.8747936
Longitude	93	48	15.8903424
Ellipsoid Height (M):	43.236		
Geoid Height (M):	-27.398		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 ON THE WEST EDGE OF GARLAND CITY, GO WEST ON HWY. 82 FOR 11.67 KM (7.25 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 17.30 METERS NORTH OF THE CENTERLINE OF HWY. 82, 22.8 METERS EAST OF THE CENTER OF CO. RD. NO. 27 AND 1.0 METERS SOUTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN FENCE CORNER MADE W/RAILROAD TIES	270	16.60	54.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	460006A
Geodetic Azimuth	93 59 00.73119
Grid Azimuth	94 59 36.279825

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460006A	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	484,189.5331	
Easting (M)	232,978.9730	
Elevation (M)*	70.198	
Northing (SFT)	1,588,545.1598	
Easting (SFT)	764,365.1806	
Elevation (SFT)*	230.308	

Convergence Angle	-1	0	18.2350831
Scale Factor			0.999976961
Elevation Adjust. Factor			0.9999889838
Combined Adjust. Factor			0.9999659450

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	45.0524088
Longitude	93	47	44.7048240
Ellipsoid Height (M):	42.805		
Geoid Height (M):	-27.393		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN NORTHWEST GARLAND CITY, GO WEST ON HWY. 82 FOR 10.86 KM (6.75 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.9 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 22.4 METERS EAST OF THE CENTER OF CO. RD. NO. 61, 12.2 METERS NORTHEAST OF THE NORTHEAST CORNER OF A ONE STORY BRICK BUILDING AND 0.77 METERS NORTH OF A WITNESS POST AND A FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN GATE POST	92	16.80	55.1
MK # 2	TELEPHONE JUNCTION BOX	263	28.30	92.8
MK # 3	NONE			

AZ Mark Station	460006
Geodetic Azimuth	273 59 17.90401
Grid Azimuth	274 59 36.27983

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460007	4/13/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	484,060.2561	
Easting (M)	235,360.3030	
Elevation (M)*	69.939	
Northing (SFT)	1,588,121.0236	
Easting (SFT)	772,177.9274	
Elevation (SFT)*	229.458	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	24	42.2030016	
Longitude	93	46	12.4652136	
Ellipsoid Height (M):	42.561			
Geoid Height (M):	-27.378			

Convergence Angle	0	59	26.6094322
Scale Factor	0.999977110		
Elevation Adjust. Factor	0.9999890244		
Combined Adjust. Factor	0.9999661347		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 8.449 KM (5.25 MILES) TO THE STATION ON ON THE LEFT. THE STATION IS 17.25 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 5.8 METERS EAST OF A FIELD ENTRANCE AND 1.85 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	170	2.20	7.2
MK # 2	SOUTH-SOUTHWEST HEADWALL OF RC BOX	30	12.90	42.3
MK # 3	NONE			

AZ Mark Station	460007A
Geodetic Azimuth	271 52 52.60797
Grid Azimuth	272 52 19.32605

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460007A	4/13/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	484,091.3951	
Easting (M)	234,739.6210	
Elevation (M)*	69.650	
Northing (SFT)	1,588,223.1854	
Easting (SFT)	770,141.5732	
Elevation (SFT)*	228.510	

Convergence Angle	0	59	40.0643524	
Scale Factor	0.999977075			
Elevation Adjust. Factor	0.9999890698			
Combined Adjust. Factor	0.9999661450			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	24	42.8645844	
Longitude	93	46	36.5051352	
Ellipsoid Height (M):	42.268			
Geoid Height (M):	-27.382			

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 9.093 KM (5.65 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.8 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 17.7 METERS WEST OF THE ENTRANCE TO A CULTIVATED FIELD AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	95	8.60	28.2
MK # 2	WEST END OF METAL CULVERT UNDER FI	63	15.50	50.9
MK # 3	NONE			

AZ Mark Station	460007
Geodetic Azimuth	91 52 39.37034
Grid Azimuth	92 52 19.32605

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460008	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	483,763.7101	
Easting (M)	237,760.9770	
Elevation (M)*	70.866	
Northing (SFT)	1,587,148.1056	
Easting (SFT)	780,054.1387	
Elevation (SFT)*	232.500	

Convergence Angle	0	58	34.5040348
Scale Factor	0.999977544		
Elevation Adjust. Factor	0.9999888789		
Combined Adjust. Factor	0.9999664232		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	33.9163416
Longitude	93	44	39.3684396
Ellipsoid Height (M):	43.506		
Geoid Height (M):	-27.360		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 5.874 KM (3.65 MILES) TO THE INTERSECTION WITH HWY. 296 TO THE RIGHT AND THE STATION ON THE RIGHT. THE STATION IS 47.4 METERS NORTHEAST OF THE CENTERLINE OF HWY. 82, 26.5 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 296 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 12" HACKBERRY USED AS FENCE POST	120	22.00	72.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	460008A
Geodetic Azimuth	182 22 37.48196
Grid Azimuth	183 21 11.99156

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460008A	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	483,004.3532	
Easting (M)	237,716.4830	
Elevation (M)*	70.205	
Northing (SFT)	1,584,656.7821	
Easting (SFT)	779,908.1613	
Elevation (SFT)*	230.331	

Convergence Angle	0	58	35.1873916
Scale Factor	0.999978845		
Elevation Adjust. Factor	0.9999889827		
Combined Adjust. Factor	0.9999678279		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	9.2473740
Longitude	93	44	40.5893940
Ellipsoid Height (M):	42.851		
Geoid Height (M):	-27.354		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 5.15 KM (3.20 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.2 METERS WEST OF THE CENTERLINE OF HWY. 82, 6.7 METERS SOUTH OF A DRIVEWAY TO A SHOP BUILDING AND 0.50METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL GATE POST	347	4.50	14.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	460008
Geodetic Azimuth	2 22 36.809754
Grid Azimuth	3 21 11.991562

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460009	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	480,320.2951	
Easting (M)	238,458.8490	
Elevation (M)*	69.808	
Northing (SFT)	1,575,850.8348	
Easting (SFT)	782,343.7404	
Elevation (SFT)*	229.028	

Convergence Angle	0	58	18.1243538
Scale Factor	0.999983529		
Elevation Adjust. Factor	0.9999890450		
Combined Adjust. Factor	0.9999725741		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	22	42.5479116
Longitude	93	44	10.1028444
Ellipsoid Height (M):	42.482		
Geoid Height (M):	-27.326		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 2.092 KM (1.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.8 METERS WEST OF THE CENTERLINE OF HWY. 82, 10.5 METERS EAST OF A GRAVEL ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	181	29.40	96.5
MK # 2	TELEPHONE JUNCTION BOX	354	19.00	62.3
MK # 3	NONE			

AZ Mark Station	460009A
Geodetic Azimuth	129 57 53.18585
Grid Azimuth	130 56 11.22621

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460009A	4/14/1994	AHTD	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	479,931.1461	
Easting (M)	238,907.5180	
Elevation (M)*	69.626	
Northing (SFT)	1,574,574.1018	
Easting (SFT)	783,815.7486	
Elevation (SFT)*	228.431	

Convergence Angle	0	58	8.2679200
Scale Factor	0.999984212		
Elevation Adjust. Factor	0.9999890735		
Combined Adjust. Factor	0.9999732857		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	22	30.1649880
Longitude	93	43	52.4923428
Ellipsoid Height (M):	42.306		
Geoid Height (M):	-27.320		

Location Description

FROM THE JCT. OF HWY. 82 AND HWY. 134 IN WESTERN GARLAND CITY, GO WEST ON HWY. 82 FOR 1.448 KM (0.90 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 19.8 METERS NORTH OF THE CENTERLINE OF HWY. 82, 19.6 METERS WEST OF THE CENTER OF A FIELD ENTRANCE AND 0.80 METERS SOUTH OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "460009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST PIPE POST IN GATE AREA	105	12.25	40.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	460009
Geodetic Azimuth	309 58 02.87413
Grid Azimuth	310 56 11.22621

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460010		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	482,691.8131	
Easting (M)	212,435.5590	
Elevation (M)*	101.291	
Northing (SFT)	1,583,631.3901	
Easting (SFT)	696,965.6632	
Elevation (SFT)*	332.319	

Convergence Angle	-1	7	42.5265085
Scale Factor	0.999980189		
Elevation Adjust. Factor	0.9999841044		
Combined Adjust. Factor	0.9999642937		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	23	44.0318112
Longitude	94	0	58.5208296
Ellipsoid Height (M):	73.823		
Geoid Height (M):	-27.468		

Location Description

3/4" X 36' REBAR WITH AN AHTD ALUMINUM CAP SET ON THE EAST SIDE OF HWY. 71, ACROSS FROM A1 SALVAGE. NOTE: TARGET 160 IS APPROX. 300' SSW OF STATION.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	60D NAIL IN THE SOUTH FACE OF POLE	040 00 00	40.66	133.4
MK # 2	60D BAIL I BASE OF A POLE	210 00 00	22.68	74.4
MK # 3				

AZ Mark Station	460010A
Geodetic Azimuth	310 27 23.00
Grid Azimuth	309 19 40.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460010A		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	483,199.2862	
Easting (M)	211,816.1610	
Elevation (M)*	95.807	
Northing (SFT)	1,585,296.3248	
Easting (SFT)	694,933.5215	
Elevation (SFT)*	314.327	

Convergence Angle	-1	7	56.1559723
Scale Factor	0.999979331		
Elevation Adjust. Factor	0.9999849650		
Combined Adjust. Factor	0.9999642963		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	0.1040292
Longitude	94	1	22.8726084
Ellipsoid Height (M):	68.330		
Geoid Height (M):	-27.477		

Location Description

3/4" x 36" REBAR WITH AN AHTD ALUMINUM CAP SET ON THE SW SIDE OF HWY. 71.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN EAST FACE OF POLE	300 00 00	80.89	265.4
MK # 2	60D NAIL IN NORTH FACE OF POLE	140 00 00	13.15	43.1
MK # 3	60D NAIL IN NORTH FACE OF POLE	180 00 00	32.19	105.6

AZ Mark Station	460010
Geodetic Azimuth	130 27 36.00
Grid Azimuth	129 19 40.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460011		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	480,964.1062	
Easting (M)	213,036.9200	
Elevation (M)*	91.399	
Northing (SFT)	1,577,963.0718	
Easting (SFT)	698,938.6284	
Elevation (SFT)*	299.865	

Convergence Angle	-1	7	28.7703204
Scale Factor	0.999983210		
Elevation Adjust. Factor	0.9999856567		
Combined Adjust. Factor	0.9999688670		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	22	48.3468888
Longitude	94	0	33.9426324
Ellipsoid Height (M):	63.956		
Geoid Height (M):	-27.444		

Location Description

2 1/2" AHTD ALUMINUM CAP-GPS SURVEY-STAMPED "460011" AND SET ON A 3/4" X 36" REBAR. AND IS IN A CONCRETE POST 0.7 MILES SOUTH FROM JCT. OF HWY. 71 AND COUNTY ROAD 47.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO CORNER POST	020 00 00	51.21	168.0
MK # 2	BENT 40D NAIL IN EAST FACE OF CORNERP OST	190 00 00	25.39	83.3
MK # 3	TO WITNESS POST	270 00 00	2.77	9.1

AZ Mark Station	960011A
Geodetic Azimuth	001 49 49.80
Grid Azimuth	001 42 21.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460011A		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	481,390.1721	
Easting (M)	213,049.6090	
Elevation (M)*	89.545	
Northing (SFT)	1,579,360.9230	
Easting (SFT)	698,980.2589	
Elevation (SFT)*	293.782	

Convergence Angle	-1	7	28.6766866
Scale Factor	0.999982453		
Elevation Adjust. Factor	0.9999859477		
Combined Adjust. Factor	0.9999684009		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	23	2.1819552
Longitude	94	0	33.7753368
Ellipsoid Height (M):	62.081		
Geoid Height (M):	-27.464		

Location Description

2 1/2" AHTD ALUMINUM CAP-GPSSURVEY-SET ON A 3/4" X 36" REBAR AND SET IN A CONCRETE POST. 0.5 MILE SOUTH OF JCT. OF HWY. 71 AND COUNTY ROAD 47-3.5' NORTH OF SOUTH END OF GUARD RAIL.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED + ON TOP AR S. END OF BRIDGE	000 00 00	15.24	50.0
MK # 2	AHTD 2 1/2" ALUM. BENCH MARK DISC	020 00 00	17.77	58.3
MK # 3	40D NAIL IN TOP OF 9" CREOSOTE POST	190 00 00	11.52	37.8

AZ Mark Station	460011
Geodetic Azimuth	181 49 49.70
Grid Azimuth	181 42 21.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460012		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	477,731.3361	
Easting (M)	214,115.8360	
Elevation (M)*	99.473	
Northing (SFT)	1,567,356.8919	
Easting (SFT)	702,478.3719	
Elevation (SFT)*	326.354	

Convergence Angle	-1	7	4.0462469
Scale Factor			0.999989058
Elevation Adjust. Factor			0.9999843897
Combined Adjust. Factor			0.9999734479

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	21	4.1200488	
Longitude	93	59	49.7681016	
Ellipsoid Height (M):			72.031	
Geoid Height (M):			-27.442	

Location Description

2 1/2" AHTD ALUMINUM CAP-STAMPED "460012" AND SET ON A 3/4" x 36" REBAR. SET ON THE WEST SIDE OF COUNTY ROAD 237, AND IS EAST OF AHTD WITNESS POST 1.8'.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	60D NAIL IN A 10" PINE	030 00 00	27.83	91.3
MK # 2	40D NAIL IN A 12" PINE	105 00 00	21.58	70.8
MK # 3	TO TARGET #142	180 00 00	30.45	99.9

AZ Mark Station	460012A
Geodetic Azimuth	005 00 30.00
Grid Azimuth	003 53 26.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460012A		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	478,583.1091	
Easting (M)	214,173.7570	
Elevation (M)*	97.869	
Northing (SFT)	1,570,151.4171	
Easting (SFT)	702,668.4011	
Elevation (SFT)*	321.090	

Convergence Angle	-1	7	3.1522922
Scale Factor			0.999987481
Elevation Adjust. Factor			0.9999846415
Combined Adjust. Factor			0.9999721227

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	21	31.7990736	
Longitude	93	59	48.1708716	
Ellipsoid Height (M):			70.414	
Geoid Height (M):			-27.454	

Location Description

2 1/2" AHTD ALUMINUM CAP-STAMPED "460012A" SET ON A 3/4" X 36" REBAR, AND SET ON THE EAST SIDE OF COUNTY ROAD 237. 5.6' TO AHTD WITNESS POST

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO MAILBOX RT. 1 BOX 1610	260 00 00	16.25	53.3
MK # 2	TO TELEPHONE RISER	015 00 00	3.51	11.5
MK # 3	TO WITNESS POLE	090 00 00	1.71	5.6

AZ Mark Station	460012
Geodetic Azimuth	185 00 29.20
Grid Azimuth	183 53 26.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460013		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	476,807.7851	
Easting (M)	215,950.5820	
Elevation (M)*	88.472	
Northing (SFT)	1,564,326.8749	
Easting (SFT)	708,497.8678	
Elevation (SFT)*	290.262	

Convergence Angle	-1	6	23.9512231
Scale Factor	0.999990720		
Elevation Adjust. Factor	0.9999861161		
Combined Adjust. Factor	0.9999768362		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	20	35.3042376
Longitude	93	58	38.1302760
Ellipsoid Height (M):	61.049		
Geoid Height (M):	-27.431		

Location Description

2 1/2" AHTD ALUMINUM CAP ON A 3/4" X 36" REBAR AND SET IN A CONCRETE POST-STAMPED "460013"- TO REACH FROM JCT. OF HWY. 237 AND CR 234-GO EAST ON 234 1.0 MILE TO A CURVE NORTH-CONTINUE N. 0.2 MILE TO A DIRT RD. EAST-TURN RT. AND GO 0.25 MILE TO A PIPELINE CLEARING-0.15 MILE TO STATION.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	40D NAIL IN THE EAST FACE OF A 12" PINE	295 00 00	26.30	86.3
MK # 2	"T" POST ON THE N. SIDE OF DEER STAND	220 00 00	8.23	27.0
MK # 3				

AZ Mark Station	460013A
Geodetic Azimuth	204 35 21.00
Grid Azimuth	203 28 57.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460013A		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	476,457.6621	
Easting (M)	215,798.4710	
Elevation (M)*	88.746	
Northing (SFT)	1,563,178.1797	
Easting (SFT)	707,998.8169	
Elevation (SFT)*	291.161	

Convergence Angle	-1	6	27.0965335
Scale Factor	0.999991386		
Elevation Adjust. Factor	0.9999860731		
Combined Adjust. Factor	0.9999774592		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	20	23.8463628	
Longitude	93	58	43.7500056	
Ellipsoid Height (M):	61.329			
Geoid Height (M):	-27.428			

Location Description

2 1/2" AHTD ALUMINUM CAP ON A 3/4" X 36" REBAR AND SET IN A CONCRETE POST STAMPED "460013A"-AND IS SOUTH OF STATION 460013 0.25 MILE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	40D NAIL IN THE EAST FACE OF 7" PINE	320 00 00	26.67	87.5
MK # 2	TO TARGET 136	150 00 00	13.27	43.5
MK # 3	40D NAIL IN THE W. FACE OF A 10" WALNU T	080 00 00	37.22	122.1

AZ Mark Station	460013
Geodetic Azimuth	024 35 24.10
Grid Azimuth	023 28 57.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460016A		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	464,661.1090	
Easting (M)	224,110.4050	
Elevation (M)*	79.761	
Northing (SFT)	1,524,475.6551	
Easting (SFT)	735,268.8871	
Elevation (SFT)*	261.683	

Convergence Angle	-1	3	22.5173514
Scale Factor	1.000015045		
Elevation Adjust. Factor	0.9999874831		
Combined Adjust. Factor	1.0000025279		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	14	6.1070244
Longitude	93	53	13.9621668
Ellipsoid Height (M):	52.526		
Geoid Height (M):	-27.303		

Location Description

2 1/2" AHTD ALUMINUM CAP SET ON A 3/4" X 36" REBAR IN CONCRETE, 0.1' BELOW THE GROUND, STAMPED "460016A" IN THE WEST R/W OF HWY. 71. -1.7 MILES SOUTH OF JCT. COUNTY ROAD 9 IN FOUKE OR 0.7 MILE NORTH OF JCT. OF HWY. 71 AND HWY. 134.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO CENTERLINE OF HWY. 71	090 00 00	17.98	59.0
MK # 2	TO 40D NAIL IN NE FACE OF CEDAR TREE	250 00 00	31.23	102.4
MK # 3	TO 40D NAIL IN TOP OF CORNERPOST	320 00 00	11.73	38.5

AZ Mark Station	460016
Geodetic Azimuth	004 00 53.50
Grid Azimuth	002 57 31.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460017		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	463,509.8100	
Easting (M)	224,755.3070	
Elevation (M)*	77.715	
Northing (SFT)	1,520,698.4350	
Easting (SFT)	737,384.7030	
Elevation (SFT)*	254.970	

Convergence Angle	-1	3	8.1214470
Scale Factor			1.000017539
Elevation Adjust. Factor			0.9999878041
Combined Adjust. Factor			1.0000053429

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	13	29.1288900	
Longitude	93	52	48.2409876	
Ellipsoid Height (M):	50.809			
Geoid Height (M):	-26.906			

Location Description

5/8" REBAR-2 1/2" AHTD ALUMINUM CAP -FLUSH -SET IN A CONCRETE POST AND STAMPED "460017". -THE STATION IS ON THE SOUTH SIDE OF HWY. 134 AND IS 0.4 EAST OF HWY. 71.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TO P. K. AND SHINER	340 00 00	7.44	24.4
MK # 2	TO 60D NAIL IN A POWER POLE	100 00 00	22.74	74.6
MK # 3	TO 60D NAIL IN 6" BENT OAK TREE	194 00 00	12.74	41.8

AZ Mark Station	460017A
Geodetic Azimuth	092 50 02.10
Grid Azimuth	091 46 54.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460017A		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	463,489.5820	
Easting (M)	225,405.5370	
Elevation (M)*	77.861	
Northing (SFT)	1,520,632.0703	
Easting (SFT)	739,517.9993	
Elevation (SFT)*	255.449	

Convergence Angle	-1	2	54.0610977
Scale Factor			1.000017558
Elevation Adjust. Factor			0.9999877812
Combined Adjust. Factor			1.0000053390

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	13	28.8592968	
Longitude	93	52	23.1193452	
Ellipsoid Height (M):	50.961			
Geoid Height (M):	-26.900			

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, AND ON THE SOUTH SIDE OF HWY. 134, AND IS EAST OF HWY. 71.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO 60D NAIL IN A POWER POLE	070 00 00	12.54	41.2
MK # 2	TO 60D NAIL IN A 12" PINE	160 00 00	13.78	45.2
MK # 3	TO 60D NAIL IN A 30" OAK TREE	315 00 00	27.92	91.6

AZ Mark Station	460017
Geodetic Azimuth	272 49 48.10
Grid Azimuth	271 46 51.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460018		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	460,814.1450	
Easting (M)	224,852.7760	
Elevation (M)*	76.978	
Northing (SFT)	1,511,854.4074	
Easting (SFT)	737,704.4826	
Elevation (SFT)*	252.552	

Convergence Angle	-1	3	4.9458811
Scale Factor			1.000023562
Elevation Adjust. Factor			0.9999879198
Combined Adjust. Factor			1.0000114815

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	12	1.7042040	
Longitude	93	52	42.5672004	
Ellipsoid Height (M):	50.077			
Geoid Height (M):	-26.901			

Location Description

5/8" REBAT -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, STAMPED "460018A" AND SET ON THE EAST SIDE OF HWY. 71. - TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODRIDGE FO NORTH 7.9 MILES TO THE STATION ON THE RIGHT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO 60D NAIL IN POST AT TELE. RISER	025 00 00	22.80	74.8
MK # 2	60D NAIL IN WEST FACE OF 8" ELM TREE	120 00 00	21.31	69.9
MK # 3	TO THE EDGE OF HWY. 71	270 00 00	3.32	10.9

AZ Mark Station	460018
Geodetic Azimuth	314 31 11.90
Grid Azimuth	313 28 07.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460018A		rial Data Servic	MILLER	I-49	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	461,220.5870	
Easting (M)	224,649.8550	
Elevation (M)*	77.702	
Northing (SFT)	1,513,187.8758	
Easting (SFT)	737,038.7326	
Elevation (SFT)*	254.927	

Convergence Angle	-1	3	9.4913824
Scale Factor	1.000022650		
Elevation Adjust. Factor	0.9999878062		
Combined Adjust. Factor	1.0000104559		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	12	14.7735756
Longitude	93	52	50.6886528
Ellipsoid Height (M):	50.843		
Geoid Height (M):	-26.859		

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, AND IS ON THE WEST SIDE OF HWY. 71. -TO REACH FROM INT. OF HWY/ 71 AND 160 AR DODRIDGE FO NORTH 8.15 MILES TO THE STATION ON THE LEFT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO MAILBOX	195 00 00	18.01	59.1
MK # 2	TO "RED" GAS PIPE	275 00 00	13.30	43.6
MK # 3	TO 60D NAIL IN A 20" PINE TREE	315 00 00	23.20	76.1

AZ Mark Station	460018A
Geodetic Azimuth	154 31 16.50
Grid Azimuth	153 28 07.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460019		rial Data Servic	MILLER	I-49	I-49

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	457,811.4560	
Easting (M)	224,495.6270	
Elevation (M)*	75.646	
Northing (SFT)	1,502,003.0852	
Easting (SFT)	736,532.7362	
Elevation (SFT)*	248.182	

Convergence Angle	-1	3	11.4695476
Scale Factor			1.000030498
Elevation Adjust. Factor			0.9999881288
Combined Adjust. Factor			1.0000186265

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	10	24.0449016	
Longitude	93	52	54.2230428	
Ellipsoid Height (M):	48.694			
Geoid Height (M):	-26.952			

Location Description

5/8" REBAR -2 1/2" AHTD SLUMINUM CAP SET IN CONCRETE ON THE EAST SIDE OF HWY. 71 AND IS STAMPED "460019". -1.4' WEST OF AHTD WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DIDRIDGE GO NORTH 5.90 MILES TO THE STATION ON THE RIGHT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO 60D NAIL IN A FENCE POST	170 00 00	6.77	22.2
MK # 2	TO P. K. AND SHINER AT EDGE OF HWY. 71	285 00 00	4.45	14.6
MK # 3				

AZ Mark Station	460019A
Geodetic Azimuth	212 48 25.50
Grid Azimuth	211 45 14.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460019A			MILLER	I-49	I-49

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	457,546.4440	
Easting (M)	224,331.6070	
Elevation (M)*	74.146	
Northing (SFT)	1,501,133.6250	
Easting (SFT)	735,994.6140	
Elevation (SFT)*	243.261	

Convergence Angle	-1	3	14.9067988
Scale Factor			1.000031127
Elevation Adjust. Factor			0.9999883642
Combined Adjust. Factor			1.0000194908

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	10	15.3465708
Longitude	93	53	0.3643836
Ellipsoid Height (M):	47.207		
Geoid Height (M):	-26.939		

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE, STAMPED"460019A". SET ON THE WEST SIDE OF HWY. 71 EAST OF A AHTD WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODRIDGE GO NORTH 5.75 MILES TO THE STATION ON THE LEFT.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO MAILBOX	165 00 00	45.87	150.5
MK # 2	TO 60D NAIL IN TOP OF FENCE POST	280 00 00	9.14	30.0
MK # 3	TO 60D NAIL IN A 4" PINE TREE	315 00 00	12.13	39.8

AZ Mark Station	460019
Geodetic Azimuth	032 48 28.90
Grid Azimuth	031 45 14.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460020		rial Data Servic	MILLER	I-49	I-49

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	453,519.2680	
Easting (M)	223,097.4910	
Elevation (M)*	64.397	
Northing (SFT)	1,487,921.1318	
Easting (SFT)	731,945.6851	
Elevation (SFT)*	211.276	

Convergence Angle	-1	3	39.9499417
Scale Factor			1.000040838
Elevation Adjust. Factor			0.9999898941
Combined Adjust. Factor			1.0000307317

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	8	3.9137352	
Longitude	93	53	45.1089960	
Ellipsoid Height (M):	37.547			
Geoid Height (M):	-26.849			

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN A CONCRETE AND IS STAMPED "460020", SET ON THE EAST SIDE OF HWY. 71, TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODRIDGE GO NORTH 3.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.4' WEST OF AHTD WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO 60D NAIL IN POWER POLE	060 00 00	11.96	39.2
MK # 2	TO P. K. AND SHINER	275 00 00	19.29	63.3
MK # 3				

AZ Mark Station	460020A
Geodetic Azimuth	196 09 00.90
Grid Azimuth	195 05 26.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460020A		rial Data Servic	MILLER	I-49	I-49

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	453,519.2680	
Easting (M)	223,097.4910	
Elevation (M)*	68.230	
Northing (SFT)	1,487,921.1318	
Easting (SFT)	731,945.6851	
Elevation (SFT)*	223.851	

Convergence Angle	-1	3	39.9499417
Scale Factor	1.000040838		
Elevation Adjust. Factor	0.9999892926		
Combined Adjust. Factor	1.0000301302		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	8	3.9137352
Longitude	93	53	45.1089960
Ellipsoid Height (M):	41.387		
Geoid Height (M):	-26.843		

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE AND ON THE WEST SIDE OF HWY. 71, SOUTH OF BRIDGE 0.85 MILE AND NORTH OF RENE'S DOLLS AND CRAFTS, 1.9' EAST OF AHTD WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 AT DODRIDGE GO NORTH FOR 3.0 MILES TO THE STATION.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO SIGN POST "SCHOOL BUS STOP AHEAD"	195 00 00	12.50	41.0
MK # 2	TO 60D NAIL IN TOP OF FENCE POST	270 00 00	16.61	54.5
MK # 3	TO 60D NAIL IN A 4" ELM 6' HIGH	300 00 00	17.89	58.7

AZ Mark Station	460020
Geodetic Azimuth	016 09 05.90
Grid Azimuth	015 05 26.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460021		rial Data Servic	MILLER	I-49	I-49

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	451,936.9899	
Easting (M)	223,072.6000	
Elevation (M)*	102.743	
Northing (SFT)	1,482,729.9410	
Easting (SFT)	731,864.0218	
Elevation (SFT)*	337.083	

Convergence Angle	-1	3	39.8546315
Scale Factor	1.000044742		
Elevation Adjust. Factor	0.9999838765		
Combined Adjust. Factor	1.0000286178		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	7	12.5494932
Longitude	93	53	44.9387052
Ellipsoid Height (M):	75.855		
Geoid Height (M):	-26.858		

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE ON THE EAST SIDE OF HWY. 71 AND IS STAMPED "460021", -TO REACH FRROM THE INTERSECTION OF HWY. 71 AND 160 AT DODRIDGE GO NORTH FOR 1.95 MILES TO THE STATION ON THE RIGHT.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO 60D NAIL IN FENCE POST	091 00 00	3.26	10.7
MK # 2	TO R/W MARKER	135 00 00	3.06	10.0
MK # 3	TO 60D NAIL IN CORNER POST	185 00 00	1.46	4.8

AZ Mark Station	460021A
Geodetic Azimuth	212 06 52.90
Grid Azimuth	211 03 13.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460021A		rial Data Servic	MILLER	I-49	I-49

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	451,479.0799	
Easting (M)	222,796.8780	
Elevation (M)*	90.431	
Northing (SFT)	1,481,227.6146	
Easting (SFT)	730,959.4239	
Elevation (SFT)*	296.689	

Convergence Angle	-1	3	45.6227518
Scale Factor	1.000045895		
Elevation Adjust. Factor	0.9999858086		
Combined Adjust. Factor	1.0000317030		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	6	57.5232192
Longitude	93	53	55.2446124
Ellipsoid Height (M):	63.594		
Geoid Height (M):	-26.837		

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE ON THE WEST SIDE OF HWY. 71 AND IS STAMPED "460021A". -1.5' EAST OF AHTD WITNESS POST, -TO REACH FROM THE INT. OF HWY. 71 AND 160 AT DODRIDGE GO NORTH FOR 1.60 MILES TO THE STATION ON THE LEFT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO 60D NAIL IN POST AT TELE. RISER	000 00 00	5.73	18.8
MK # 2	TO MAILBOX	055 00 00	6.98	22.9
MK # 3				

AZ Mark Station	460021
Geodetic Azimuth	032 06 58.60
Grid Azimuth	031 03 13.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460022	4/8/2003	rial Data Servic	MILLER	160	R30079

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	448,738.6230	
Easting (M)	223,375.0110	
Elevation (M)*		
Northing (SFT)	1,472,236.6323	
Easting (SFT)	732,856.1819	
Elevation (SFT)*		

Convergence Angle	-1	3	32.0510407
Scale Factor	1.000052802		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	5	28.9354812	
Longitude	93	53	30.9960204	
Ellipsoid Height (M):	59.359			
Geoid Height (M):	-26.470			

Location Description

5/8" REBAR -2 1/2" AHTD ALUMINUM CAP SET IN CONCRETE ON THE SOUTH SIDE OF HWY. 160 AND IS STAMPED "460022" AND IS NORTH OF WITNESS POST. -TO REACH FROM THE INTERSECTION OF HWY. AND 160 GO EAST ON HWY. 160 FOR 0.55 MILE TO THE STATION ON THE RIGHT

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO 60D NAIL IN A 10" PINE TREE	190 00 00	12.77	41.9
MK # 2	TO TELE. CABLE SIGN POLE	215 00 00	8.99	29.5
MK # 3	TO P. K. AND SHINER AT EDGE OF HWY. 160	285 00 00	5.61	18.4

AZ Mark Station	460022A
Geodetic Azimuth	76 17 44
Grid Azimuth	77 21 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON; LA GPS 8 & 9
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

ADS states elevation is 85.895 meter but has no documentation.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460022A	4/8/2003	rial Data Servic	MILLER	160	R30079

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	448,818.2549	
Easting (M)	223,729.9400	
Elevation (M)*		
Northing (SFT)	1,472,497.8913	
Easting (SFT)	734,020.6448	
Elevation (SFT)*		

Convergence Angle	-1	3	24.4241352
Scale Factor	1.000052582		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	5	31.7324364
Longitude	93	53	17.3690196
Ellipsoid Height (M):	68.209		
Geoid Height (M):	-26.469		

Location Description

5/8" REBAR -2 1/2" ALUMINUM AHTD CAP SET IN CONCRETE ON THE SOUTH SIDE OF HWY. 160 AND IS STAMPED "460022A", -TO REACH FROM THE INTERSECTION OF HWY. 71 AND 160 GO EAST ON HWY. 160 FOR 0.75 MILE TO THE STATION ON THE RIGHT. - 2.1' NORTH OF AHTD WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TO SIGN POLE	085 00 00	5.11	16.7
MK # 2	TO TELEPHONE RISER	135 00 00	9.05	29.7
MK # 3	TO AHTD R/W POST	225 00 00	11.92	39.1

AZ Mark Station	460022
Geodetic Azimuth	256 17 52
Grid Azimuth	257 21 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON; LA GPS 8 & 9
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

ADS states elevation is 94.745 meter but has no documentation.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460023A	4/8/2003	rial Data Servic	MILLER	71	R30079

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	447,260.5009
Easting (M)	222,636.4250
Elevation (M)*	
Northing (SFT)	1,467,387.1600
Easting (SFT)	730,433.0044
Elevation (SFT)*	
Convergence Angle	-1 3 47.3962025
Scale Factor	1.000056654
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 4 40.5226704
Longitude	93 53 58.4132388
Ellipsoid Height (M):	71.566
Geoid Height (M):	-26.770

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71 AND HIGHWAY 160, SOUTH OF DODDRIDGE, GO SOUTH ON HIGHWAY 71 1.2 MILES TO THE STATION ON THE RIGHT. 6.1 METERS WEST OF THE CENTERLINE OF THE HIGHWAY, 24 METERS SOUTHWEST OF A POWER POLE, 15 METERS NORTHWEST OF A GRAVEL DRIVE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460023A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND. 2.2' EAST OF AHTD WITNESS POST

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TO MAILBOX	080 00 00	13.05	42.8
MK # 2	TO AERIAL TARGET 3501	210 00 00	6.10	20.0
MK # 3	TO 60D NAIL IN 12" PINE TREE 5' HIGH	315 00 00	24.42	80.1

AZ Mark Station	460023
Geodetic Azimuth	341 41 46.40
Grid Azimuth	340 37 59.00

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON; LA GPS 8 & 9
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

ADS states elevation is 71.566 meter but has no documentation.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460025	2/10/2003	AHTD	MILLER	296	030295,30108,030100

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	492,925.4272	
Easting (M)	215,938.5240	
Elevation (M)*	98.776	
Northing (SFT)	1,617,206.1724	
Easting (SFT)	708,458.3075	
Elevation (SFT)*	324.069	

Convergence Angle	-1	6	30.9617889
Scale Factor			0.999963565
Elevation Adjust. Factor			0.9999844990
Combined Adjust. Factor			0.9999480646

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	29	18.3608124
Longitude	93	58	50.6560620
Ellipsoid Height (M):	71.847		
Geoid Height (M):	-26.869		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.20 METERS EAST OF AN ASHPHALT DRIVE, 9.85 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	280	7.50	24.6
MK # 2	TELEPHONE JUNCTION BOX	290	7.30	24.0
MK # 3				

AZ Mark Station	460025A
Geodetic Azimuth	271 15 17
Grid Azimuth	272 21 48

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460025 RESET	10/25/2022	ARDOT	MILLER	R HILL I	030575

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	492,925.4239	0.0010
Easting (M)	215,938.5422	0.0010
Elevation (M)*	98.734	

Northing (SFT)	1,617,206.1616	
Easting (SFT)	708,458.3672	
Elevation (SFT)*	323.931	

Convergence Angle	-1	6	30.9613920
Scale Factor	0.999963565		
Elevation Adjust. Factor	0.9999845056		
Combined Adjust. Factor	0.9999480712		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	29	18.3607152
Longitude	93	58	50.6553528
Ellipsoid Height (M):	71.734		0.0040
Geoid Height (M):	-26.963		0.0040

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.20 METERS EAST OF AN ASHPHALT DRIVE, 9.85 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025 RESET 2022" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	280	7.50	24.6
MK # 2	TELEPHONE JUNCTION BOX	290	7.30	24.0
MK # 3				

AZ Mark Station	460025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARHP, TXMV

Comments

ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460025A	2/10/2003	AHTD	MILLER	296	030295,30108,030100

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	492,957.2191	
Easting (M)	215,168.2280	
Elevation (M)*	91.023	
Northing (SFT)	1,617,310.4763	
Easting (SFT)	705,931.0947	
Elevation (SFT)*	298.631	

Convergence Angle	-1	6	47.6731324
Scale Factor	0.999963540		
Elevation Adjust. Factor	0.9999857158		
Combined Adjust. Factor	0.9999492563		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	29	18.9077928
Longitude	93	59	20.5142388
Ellipsoid Height (M):	64.096		
Geoid Height (M):	-26.870		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST, LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.40 METERS EAST OF A GRAVEL DRIVE, 9.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 3.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	291	4.70	15.4
MK # 2	POWER POLE	282	19.20	63.0
MK # 3				

AZ Mark Station	460025
Geodetic Azimuth	91 15 00
Grid Azimuth	92 21 48

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460025A RESET	10/25/2022	ARDOT	MILLER	R HILL I	030575

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	492,957.1854	0.0010
Easting (M)	215,168.2750	0.0010
Elevation (M)*	90.989	

Northing (SFT)	1,617,310.3658	
Easting (SFT)	705,931.2489	
Elevation (SFT)*	298.519	

Convergence Angle	-1	6	47.6721008
Scale Factor	0.999963540		
Elevation Adjust. Factor	0.9999857211		
Combined Adjust. Factor	0.9999492616		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	33	29	18.9067272
Longitude	93	59	20.5123956
Ellipsoid Height (M):	63.991	0.0040	
Geoid Height (M):	-26.963	0.0040	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 296 WEST, LOCATED NORTHEAST OF TEXARKANA, GO WEST ON STATE HIGHWAY 296 FOR 1.51 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.40 METERS EAST OF A GRAVEL DRIVE, 9.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 296, AND 3.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460025A RESET 2022" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	291	4.70	15.4
MK # 2	POWER POLE	282	19.20	63.0
MK # 3				

AZ Mark Station	460025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARHP, TXMV

Comments

ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460026	2/10/2003	AHTD	MILLER	245	06,030295,030108,030342,03(

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	487,135.4872	
Easting (M)	213,625.8400	
Elevation (M)*	107.464	
Northing (SFT)	1,598,210.3443	
Easting (SFT)	700,870.7767	
Elevation (SFT)*	352.572	

Convergence Angle	-1	7	18.6366504
Scale Factor	0.999972662		
Elevation Adjust. Factor	0.9999831357		
Combined Adjust. Factor	0.9999557981		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	26	8.9997360
Longitude	94	0	15.8367924
Ellipsoid Height (M):	80.598		
Geoid Height (M):	-26.823		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 245 LOCATED IN TEXARKANA, GO SOUTH ON STATE HIGHWAY 245 FOR 0.90 MILES TO THE STATION ON THE RIGHT. THE STATION IS 19.5 METERS WEST OF THE EDGE OF ASHPHALT, 1.59 METERS EAST OF A WEBB WIRE FENCE LINE, AND 1.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460026 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY WIRE	350	10.90	35.8
MK # 2				
MK # 3				

AZ Mark Station	460026A
Geodetic Azimuth	350 17 11
Grid Azimuth	351 24 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460026A	2/10/2003	AHTD	MILLER	245	06,030295,030108,030342,03(

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	487,802.5442	
Easting (M)	213,525.0560	
Elevation (M)*	107.397	
Northing (SFT)	1,600,398.8471	
Easting (SFT)	700,540.1212	
Elevation (SFT)*	352.352	

Convergence Angle	-1	7	21.1031918
Scale Factor	0.999971583		
Elevation Adjust. Factor	0.9999831462		
Combined Adjust. Factor	0.9999547297		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	26	30.5835072
Longitude	94	0	20.2437648
Ellipsoid Height (M):	80.520		
Geoid Height (M):	-26.828		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 245 LOCATED IN TEXARKANA, GO SOUTH ON STATE HIGHWAY 245 FOR 0.45 MILES TO THE STATION ON THE LEFT ACROSS THE DIVIDED HIGHWAY SET ATOP A HIGH BANK. THE STATION IS 22.4 METERS EAST OF THE EDGE OF THE ASHPHALT AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED " 460026A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	460026
Geodetic Azimuth	170 17 09
Grid Azimuth	171 24 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460027	2/11/2003	AHTD	MILLER	I 30	306,030295,30108,030100, 030

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	491,387.8509	0.0010
Easting (M)	212,599.7291	0.0010
Elevation (M)*	104.304	
Northing (SFT)	1,612,161.6408	
Easting (SFT)	697,504.2779	
Elevation (SFT)*	342.204	

Convergence Angle	-1	7	42.6809637
Scale Factor			0.999965981
Elevation Adjust. Factor			0.9999836316
Combined Adjust. Factor			0.9999496131

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	28	26.3465508
Longitude	94	0	58.7976912
Ellipsoid Height:			77.373
Grid Northing (Meters)			491,387.8521
Grid Easting (Meters)			212,599.7060

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	28	26.3465256	
Longitude	94	0	58.7967948	
Ellipsoid Height (M):			77.324	0.0040
Geoid Height (M):			-26.950	0.0040

Location Description

TO REACH THE STATION FROM THE TEXAS / ARKANSAS STATE LINE IN TEXARKANA, GO EAST ON I 30 FOR 1.60 MILES TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 8.80 METERS SOUTH OF THE EDGE OF WEST BOUND LAND, 7.20 METERS NORTH OF THE EDGE OF EAST BOUND LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460027 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	460027A
Geodetic Azimuth	256 02 45
Grid Azimuth	257 10 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM (NEW BOSTON)
Ref Mon # 2	ARDQ (De QUEEN CORS)
Ref Mon # 3	ARHP, TXMV (AHTD HOPE, T

Comments

SUPERCEDED ELEVATION 104.2879m BY 3-WIRE LOOP FROM NGS C 1497 IN JOB 030295 IN 2003 & SUPERCEDED GEOID HT. -26.857m.
**********UPDATE D ELEV. BASED ON DIGITAL LEVELS BY CREW S5103 IN NOV. 2022 FOR JOB #030575 FROM TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS BY CREW S5112 IN SEPT. 2020 FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460027A	2/11/2003	AHTD	MILLER	I 30	030306,030295,30108,030100

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	491,283.5811	
Easting (M)	212,141.7010	
Elevation (M)*	108.290	
Northing (SFT)	1,611,819.5490	
Easting (SFT)	696,001.5640	
Elevation (SFT)*	355.282	

Convergence Angle	-1	7	52.5634257
Scale Factor	0.999966154		
Elevation Adjust. Factor	0.9999830060		
Combined Adjust. Factor	0.9999491606		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	28	22.6695252
Longitude	94	1	16.4538012
Ellipsoid Height (M):	81.364		
Geoid Height (M):	-26.858		

Location Description

TO REACH THE STATION FROM THE TEXAS / ARKANSAS STATE LINE IN TEXARKANA, GO EAST ON I 30 FOR 1.30 MILES TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 8.8 METERS SOUTH OF THE EDGE OF THE WEST BOUND LANE, 7.45 METERS NORTH OF THE EDGE OF THE EAST BOUND LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460027A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END GUARD RAIL POST	91	22.20	72.8
MK # 2				
MK # 3				

AZ Mark Station	460027
Geodetic Azimuth	76 02 35
Grid Azimuth	77 10 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

ELEVATION BY 3-WIRE LOOP FROM NGS C 1497 IN JOB 030295 IN 2003.
Mark is disturbed as per S5103 in Nov 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460027A RESET	10/25/2022	ARDOT	MILLER	I-30	030575, 030575

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	491,283.6311	0.0010
Easting (M)	212,141.7553	0.0010
Elevation (M)*	108.274	

Northing (SFT)	1,611,819.7130	
Easting (SFT)	696,001.7422	
Elevation (SFT)*	355.228	

Convergence Angle	-1	7	52.5622712
Scale Factor	0.999966154		
Elevation Adjust. Factor	0.9999830086		
Combined Adjust. Factor	0.9999491632		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	28	22.6711812
Longitude	94	1	16.4517384
Ellipsoid Height (M):	81.286	0.0040	
Geoid Height (M):	-26.949	0.0040	

Location Description

"TO REACH THE STATION FROM THE TEXAS / ARKANSAS STATE LINE IN TEXARKANA, GO EAST ON I 30 FOR 1.30 MILES TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 8.8 METERS SOUTH OF THE EDGE OF THE WEST BOUND LANE, 7.45 METERS NORTH OF THE EDGE OF THE EAST BOUND LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED ""460027A RESET 2022"" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND."

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF GUARD RAIL POST	91	22.20	72.8
MK # 2				
MK # 3				

AZ Mark Station	460027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARDQ
Ref Mon # 3	ARHP, TXMV

Comments

ELEV. BASED ON TBM #902 FROM JOB #030477 WHICH WAS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs H 307, A 1497 & B 1497 BY S5112 IN SEPT. 2020 FOR JOB #030477

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460028	2/11/2003	AHTD	MILLER	N/A	30108,030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	496,376.1651
Easting (M)	210,702.8260
Elevation (M)*	82.536
Northing (SFT)	1,628,527.4683
Easting (SFT)	691,280.8550
Elevation (SFT)*	270.786
Convergence Angle	-1 8 25.9458512
Scale Factor	0.999958722
Elevation Adjust. Factor	0.9999870476
Combined Adjust. Factor	0.9999457702

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 31 7.0113684
Longitude	94 2 16.0982196
Ellipsoid Height (M):	55.611
Geoid Height (M):	-26.900

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 59 /71 AND STATE HIGHWAY 296 LOCATED NORTH OF TEXARKANA, GO NORTH ON U.S. HIGHWAY 59 /71 FOR 2.00 MILES TO THE JUNCTION OF MILLER COUNTY ROAD 55 ON THE RIGHT, TURN RIGHT (EAST) AND GO 0.32 MILES ON COUNTY ROAD 55 TO THE STATION ON THE LEFT. THE STATION I 29.30 METERS WEST OF A GRAVEL DRIVE, 6.40 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 11.00 METERS NORTH OF THE CENTER OF COUNTY ROAD 55, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460028 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORRIGATED METAL PIPE	213	4.70	15.4
MK # 2	CONCRETE HEAD WALL	100	26.50	86.9
MK # 3				

AZ Mark Station	460028A
Geodetic Azimuth	268 26 58
Grid Azimuth	269 35 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460028A	2/11/2003	AHTD	MILLER	71	030295,30108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	496,372.3912	
Easting (M)	210,175.2900	
Elevation (M)*	82.541	
Northing (SFT)	1,628,515.0868	
Easting (SFT)	689,550.0973	
Elevation (SFT)*	270.805	

Convergence Angle	-1	8	37.3836907
Scale Factor			0.999958742
Elevation Adjust. Factor			0.9999870467
Combined Adjust. Factor			0.9999457893

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	31	6.5475840
Longitude	94	2	36.5342208
Ellipsoid Height (M):	55.595		
Geoid Height (M):	-26.900		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 59 /71 AND STATE HIGHWAY 296 LOCATED NORTH OF TEXARKANA, GO NORTH ON U.S. HIGHWAY 59 /71 FOR 2.00 MILES TO THE JUNCTION OF MILLER COUNTY ROAD 55 AND THE STATION ON THE RIGHT. THE STATION IS 45.30 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 16.30 METERS SOUTH OF THE CENTER OF MILLER COUNTY ROAD 55, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "460028A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	25	17.80	58.4
MK # 2				
MK # 3				

AZ Mark Station	460028
Geodetic Azimuth	88 26 47
Grid Azimuth	89 35 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

3-wire Levels were ran in Job 030295-030306 from NGS C1497, G307, and B107 by Garver Engineers in July 2003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460029	4/8/2003	AHTD	MILLER	71	R30079,030313

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	443,293.1929	
Easting (M)	222,992.8920	
Elevation (M)*	73.335	
Northing (SFT)	1,454,371.0837	
Easting (SFT)	731,602.5132	
Elevation (SFT)*	240.600	

Convergence Angle	-1	3	38.1210594
Scale Factor			1.000067143
Elevation Adjust. Factor			0.9999884915
Combined Adjust. Factor			1.0000556337

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	2	31.9881192	
Longitude	93	53	41.8413300	
Ellipsoid Height (M):	46.915			
Geoid Height (M):	-26.420			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71 AND HIGHWAY 160, SOUTH OF TEXARKANA, GO SOUTH ON HIGHWAY 71 FOR 3.55 MILES TO THE STATION ON THE RIGHT, 12.0 METERS WEST OF THE CENTERLINE AND 0.50 WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "460029 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	44	20.00	65.6
MK # 2				
MK # 3				

AZ Mark Station	460029A
Geodetic Azimuth	352 13 16
Grid Azimuth	353 16 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON; LA GPS 8 & 9
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460029A	4/8/2003	AHTD	MILLER	71	R30079,030313

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	443,805.9629	
Easting (M)	222,932.4900	
Elevation (M)*	70.036	
Northing (SFT)	1,456,053.3966	
Easting (SFT)	731,404.3443	
Elevation (SFT)*	229.776	

Convergence Angle	-1	3	39.6284585
Scale Factor	1.000065766		
Elevation Adjust. Factor	0.9999890092		
Combined Adjust. Factor	1.0000547745		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	2	48.5924496
Longitude	93	53	44.5346016
Ellipsoid Height (M):	43.611		
Geoid Height (M):	-26.425		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 71 AND HIGHWAY 160, SOUTH OF TEXARKANA, GO SOUTH ON HIGHWAY 71 3.25 MILES TO THE STATION ON THE RIGHT, 11.4 METERS SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY AND 4.05 FEET NORTHEAST OF A WITNESS POST. THE STAION MARK IS A STANDARD 64mm CAP STAMPED "460029A 2003" ON TOP OF AN IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	268	4.00	13.1
MK # 2	TELEPHONE RISER	195	10.40	34.1
MK # 3				

AZ Mark Station	460029
Geodetic Azimuth	172 13 15
Grid Azimuth	173 16 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON; LA GPS 8 & 9
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460030	7/28/2004	AHTD	MILLER	71	XA0302,030342,030463

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	484,892.4631	
Easting (M)	211,192.9600	
Elevation (M)*	92.007	
Northing (SFT)	1,590,851.3560	
Easting (SFT)	692,888.9029	
Elevation (SFT)*	301.860	

Convergence Angle	-1	8	10.3784817
Scale Factor	0.999976461		
Elevation Adjust. Factor	0.9999855613		
Combined Adjust. Factor	0.9999620226		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	54.6516036
Longitude	94	1	48.2839824
Ellipsoid Height (M):	65.173		
Geoid Height (M):	-26.812		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 ìAND STATE HIGHWAY 196, IN TEXARKANA, GO SOUTH ON HIGHWAY 71 ì0.10 MILES TO THE STATION MARK ON THE LEFT, EAST 9.30 METERS OF ìTHE CENTERLINE OF THE HIGHWAY AND SOUTH 29.8 METERS OF BRAMBLE ìSTREET AND WEST 0.30 METERS OF A WITNESS POST. THE STATION MARK ìIS A STANDARD 64mm CAP STAMPED "460030 2004" ON TOP OF A 1.22 ìMETER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	169	5.60	18.4
MK # 2	NORTHWEST CORNER OF BRICK BLUILDIN	46	21.20	69.6
MK # 3				

AZ Mark Station	460030
Geodetic Azimuth	183 02 50
Grid Azimuth	184 11 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307 by B&F Engineering in Job R30052 in May 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460030A	7/28/2004	AHTD	MILLER	71	XA0302,030342,030463

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	484,244.4561	
Easting (M)	211,145.5610	
Elevation (M)*	100.142	
Northing (SFT)	1,588,725.3531	
Easting (SFT)	692,733.3947	
Elevation (SFT)*	328.550	

Convergence Angle	-1	8	11.1266695
Scale Factor	0.999977561		
Elevation Adjust. Factor	0.9999842847		
Combined Adjust. Factor	0.9999618460		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	33.5915928
Longitude	94	1	49.6207704
Ellipsoid Height (M):	73.306		
Geoid Height (M):	-26.808		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 iAND STATE HIGHWAY 196, IN TEXARKANA, GO SOUTH ON HIGHWAY 71 i0.50 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.30 METERS iOF THE CENTERLINE OF THE HIGHWAY AND NORTH 17.2 METERS OF iFOREST STREET AND EAST 0.50 METERS OF A WITNESS POST. THE iSTATION MARK IS A STANDARD 64mm CAP STAMPED "460030A 2004" ON iTOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE WITH RED LIGHTS	175	11.10	36.4
MK # 2	PAY PHONE	262	22.30	73.2
MK # 3				

AZ Mark Station	460030
Geodetic Azimuth	3 02 49
Grid Azimuth	4 11 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307 by B&F Engineering in Job R30052 in May 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460030A-TX	5/19/2003	NTB	TX / BOWIE	N/A	030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	496,617.4062	
Easting (M)	203,951.8500	
Elevation (M)*		
Northing (SFT)	1,629,318.9402	
Easting (SFT)	669,132.0279	
Elevation (SFT)*		

Convergence Angle	-1	10	52.4448253
Scale Factor	0.999958575		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	31	10.4006496
Longitude	94	6	37.8481068
Ellipsoid Height (M):	68.863		
Geoid Height (M):	-26.900		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, NORTH OF PLEASANT GROVE COMMINITY, GO NORTH ON HWY 559 FOR 4.1 MILES TO THE JUNCTION OF HWY 559 AND 2308 (SPARKS ROAD) TURN LEFT (WEST) ON SPARKS ROAD AND GO 1.65 MILES TO THE STATION ON THE LEFT. 7.0 METERS SOUTH OF THE C/L OF SPARKS ROAD, 13.0 METERS FROM THE CENTER OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460030A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460030
Geodetic Azimuth	76 34 02
Grid Azimuth	77 44 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460030-TX	5/19/2003	NTB	TX / BOWIE	N/A	030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	496,741.6912
Easting (M)	204,524.1980
Elevation (M)*	
Northing (SFT)	1,629,726.6985
Easting (SFT)	671,009.8063
Elevation (SFT)*	

Convergence Angle	-1	10	40.0890398
Scale Factor			0.999958385
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	31	14.8163880
Longitude	94	6	15.7720104
Ellipsoid Height (M):	69.103		
Geoid Height (M):	-26.901		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, NORTH OF THE PLEASANT GROVE COMMUNITY, GO NORTH ON HWY 559 FOR 4.1 MILES TO THE JUNCTION OF HWY 559 AND CR 2308 (SPARKS ROAD) TURN LEFT (WEST) ON SPARKS ROAD AND GO 1.3 MILES TO THE STATION ON THE LEFT. 7.0 METERS SOUTH OF THE C/L OF SPARKS ROAD, 18 METERS EAST OF THE CENTEROF A GRAVEL DRIVE, 23.0 METERS NORTHWEST OF A POWERPOLE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460030 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460030A
Geodetic Azimuth	256 34 14
Grid Azimuth	257 44 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460031	7/28/2004	AHTD	MILLER	237	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	483,745.2371	
Easting (M)	215,976.9550	
Elevation (M)*	113.228	
Northing (SFT)	1,587,087.4987	
Easting (SFT)	708,584.3932	
Elevation (SFT)*	371.481	

Convergence Angle	-1	6	26.2822997
Scale Factor			0.999978252
Elevation Adjust. Factor			0.9999822312
Combined Adjust. Factor			0.9999604836

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	20.4609780
Longitude	93	58	42.2952132
Ellipsoid Height (M):	86.436		
Geoid Height (M):	-26.790		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 ìAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO SOUTH ON HIGHWAY ì237 0.25 MILES TO THE STATION MARK ON THE RIGHT, WEST 8.00 ìMETERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OFì A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPEDì "460031 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITHì THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANDT	212	2.10	6.9
MK # 2	NORTHEAST CORNER BAPTIST CHURCH	205	26.20	86.0
MK # 3	LIGHT POLE	242		

AZ Mark Station	460031A
Geodetic Azimuth	3 27 11
Grid Azimuth	4 33 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460031A	7/28/2004	AHTD	MILLER	237	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	484,111.3241	
Easting (M)	216,006.1540	
Elevation (M)*	112.823	
Northing (SFT)	1,588,288.5692	
Easting (SFT)	708,680.1902	
Elevation (SFT)*	370.153	

Convergence Angle	-1	6	25.8031718
Scale Factor	0.999977626		
Elevation Adjust. Factor	0.9999822947		
Combined Adjust. Factor	0.9999599211		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	32.3598780
Longitude	93	58	41.4391548
Ellipsoid Height (M):	86.032		
Geoid Height (M):	-26.792		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 ìAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO SOUTH ON HIGHWAYì 237 20.2 METERS TO THE STATION MARK ON THE LEFT, EAST 9.20 ìMETERS OF THE CENTERLINE OF HIGHWAY 237 AND WEST 0.50 METERS OFì A WITNESS POST. THE STATION MARK IS ASTANDARD 64mm CAP STAMPED ì"460031A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITHì THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	DIESEL PUMP	109	18.20	59.7
MK # 2	TELEPHONE RISER	178	24.85	81.5
MK # 3				

AZ Mark Station	460031
Geodetic Azimuth	183 27 11
Grid Azimuth	184 33 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460031A-TX	5/19/2003	NTB	TX / BOWIE	N/A	030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	496,722.9992	
Easting (M)	200,152.0600	
Elevation (M)*		
Northing (SFT)	1,629,665.3732	
Easting (SFT)	656,665.5502	
Elevation (SFT)*		

Convergence Angle	-1	12	14.8894725
Scale Factor			0.999958538
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	31	11.2601100
Longitude	94	9	5.1520536
Ellipsoid Height (M):	58.290		
Geoid Height (M):	-26.899		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, SOUTHEAST OF BOWIE, GO NORTH 3.8 MILES ON HWY 559 TO THE JUNCTION OF COUNTY ROAD 1397 THEN NORTH 2.6 MILES TO THE STATION ON THE LEFT. 17 METERS SOUTH OF THE C/L OF HWY 559 AND 38 METERS WEST OF A 36" PECAN TREE AND 0.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460031A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460031
Geodetic Azimuth	309 50 40
Grid Azimuth	311 02 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460031-TX	5/19/2003	NTB	TX / BOWIE	N/A	030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	497,186.9691
Easting (M)	199,619.2370
Elevation (M)*	
Northing (SFT)	1,631,187.5811
Easting (SFT)	654,917.4467
Elevation (SFT)*	
Convergence Angle	-1 12 26.6555350
Scale Factor	0.999957906
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	31	25.9528368
Longitude	94	9	26.1744912
Ellipsoid Height (M):	58.729		
Geoid Height (M):	-26.901		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND HWY 559, SOUTHEAST OF BOWIE, GO NORTH 3.8 MILES ON 559 TO THE JUNCTION OF HWY 559 AND COUNTY ROAD 1397 THEN NORTHWEST 2.6 MILES TO THE STATION ON THE LEFT. 17 METERS SOUTH OF THE C/L OF HWY 559, 12 METERS WEST OF THE C/L OF OAK RIDGE AND 0.5 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460031 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460031A
Geodetic Azimuth	129 50 28
Grid Azimuth	131 02 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460032	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	482,047.0961	
Easting (M)	219,250.4490	
Elevation (M)*	111.757	
Northing (SFT)	1,581,516.1811	
Easting (SFT)	719,324.1814	
Elevation (SFT)*	366.655	

Convergence Angle	-1	5	14.6914430
Scale Factor			0.999981085
Elevation Adjust. Factor			0.9999824620
Combined Adjust. Factor			0.9999635474

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	23	27.3861168
Longitude	93	56	34.3837464
Ellipsoid Height (M):	84.982		
Geoid Height (M):	-26.772		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 ìAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY ì196 2.5 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 12.4 ìMETERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS ìOF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP ìSTAMPED "460032 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN ìFLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	271	13.00	42.7
MK # 2	COMBINATION POLE	257	16.50	54.1
MK # 3	FENCE CORNER	113	35.50	116.5

AZ Mark Station	460032A
Geodetic Azimuth	103 03 48
Grid Azimuth	104 09 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460032A	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	481,934.4082	
Easting (M)	219,697.4030	
Elevation (M)*	101.655	
Northing (SFT)	1,581,146.4709	
Easting (SFT)	720,790.5630	
Elevation (SFT)*	333.514	

Convergence Angle	-1	5	4.9673873
Scale Factor			0.999981267
Elevation Adjust. Factor			0.9999840472
Combined Adjust. Factor			0.9999653145

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	23	24.0040248	
Longitude	93	56	17.0097648	
Ellipsoid Height (M):			74.878	
Geoid Height (M):			-26.771	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 iAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY i196 2.9 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 14.5 iMETERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS iOF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP iSTAMPED "460032A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN iFLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH TELEPHONE RIS ER	109	9.50	31.2
MK # 2	19 INCH RED OAK	258	28.20	92.5
MK # 3	12 INCH PINE	130	30.20	99.1

AZ Mark Station	460032
Geodetic Azimuth	283 03 58
Grid Azimuth	284 09 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460032A-TX	5/19/2003	NTB	TX / BOWIE	N/A	030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	493,528.2421
Easting (M)	196,053.4130
Elevation (M)*	
Northing (SFT)	1,619,183.9076
Easting (SFT)	643,218.5725
Elevation (SFT)*	
Convergence Angle	-1 13 42.2805048
Scale Factor	0.999963272
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 29 24.7609284
Longitude	94 11 41.2937124
Ellipsoid Height (M):	65.357
Geoid Height (M):	-26.878

Location Description

TO REACH THE STATION FROM THE JUNCTION OF FM 2253 AND FM 2148, NORTH OF LEARY, TX GO NORTH ON FM 2148 0.4 MILES TO THE STATION ON THE RIGHT. 14.8 METERS EAST OF THE CENTERLINE OF FM 2253 AND 28.0 METERS SOUTH OF A 32" PINE AND 0.9 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460032
Geodetic Azimuth	10 55 40
Grid Azimuth	12 09 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460032-TX	5/19/2003	NTB	TX / BOWIE	N/A	030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	494,555.7302
Easting (M)	196,274.7400
Elevation (M)*	
Northing (SFT)	1,622,554.9248
Easting (SFT)	643,944.7095
Elevation (SFT)*	
Convergence Angle	-1 13 37.9599535
Scale Factor	0.999961755
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	29	58.2584460
Longitude	94	11	33.5741784
Ellipsoid Height (M):	61.757		
Geoid Height (M):	-26.884		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF FM 2253 AND FM 2148, NORTH OF LEARY, TX, GO NORTH ON FM 2253 1.0 MILE TO THE STATION ON THE RIGHT. 6.5 METERS EAST OF C/L OF FM 2253 AND 8.4 METERS NORTHEAST CORNER OF BRIDGE AT BARKMAN CREEK AND 0.4 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460032 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460032A
Geodetic Azimuth	190 55 44
Grid Azimuth	192 09 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460033	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	481,184.7211	
Easting (M)	222,161.9870	
Elevation (M)*	111.685	
Northing (SFT)	1,578,686.8725	
Easting (SFT)	728,876.4523	
Elevation (SFT)*	366.421	

Convergence Angle	-1	4	11.2991493
Scale Factor	0.999982508		
Elevation Adjust. Factor	0.9999824733		
Combined Adjust. Factor	0.9999649816		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	23	1.1782860
Longitude	93	54	41.1206616
Ellipsoid Height (M):	84.925		
Geoid Height (M):	-26.762		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 ìAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY ì196 4.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 9.20 ìMETERS OF THE CENTERLINE OF THE HIGHWAY, NORTH 10.0 METERS OF ìTHE CENTERLINE OF A RAILROAD AND NORTH 0.50 METERS OF A WITNESS ìPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460033 ì2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE ìGROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RAIL ROAD MILE MARKER 410	206	7.00	23.0
MK # 2				
MK # 3				

AZ Mark Station	Y 22
Geodetic Azimuth	264 27 57
Grid Azimuth	265 32 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460033A-TX	5/19/2003	NTB	TX / BOWIE	N/A	030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	490,702.2012
Easting (M)	196,590.3310
Elevation (M)*	
Northing (SFT)	1,609,912.1384
Easting (SFT)	644,980.1110
Elevation (SFT)*	
Convergence Angle	-1 13 29.3320283
Scale Factor	0.999967542
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	27	53.4245580
Longitude	94	11	18.1586544
Ellipsoid Height (M):	76.267		
Geoid Height (M):	-26.862		

Location Description

TO REACH THE STATION FROM I-30 AND F.M. 2253 IN LEARY, TX GO EAST ALONG I-30 1609 METERS TO THE STATION ON THE LEFT, 8.8 METERS NORTH OF THE C/L OF THE EAST BOUND LANE OF I-30. THE STATION IS 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460033A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460033
Geodetic Azimuth	272 41 06
Grid Azimuth	273 54 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460033-TX	5/19/2003	NTB	TX / BOWIE	I-30	030295

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	490,760.3562
Easting (M)	195,739.4240
Elevation (M)*	
Northing (SFT)	1,610,102.9353
Easting (SFT)	642,188.4269
Elevation (SFT)*	

Convergence Angle	-1	13	47.7986280
Scale Factor	0.999967481		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	27	54.7201620
Longitude	94	11	51.1529496
Ellipsoid Height (M):	84.428		
Geoid Height (M):	-26.862		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND F.M. 2253 GO EAST ON I-30 850 METERS TO THE STATION ON THE LEFT 8.8 METERS NORTH OF THE CENTERLINE OF THE EAST BOUND LANE OF I-30. 0.50 METERS SOUTH OF A WITNESS POST64.9 METERS EAST OF C/L I-30 LIGHT POLE#B-1. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460033 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460033A
Geodetic Azimuth	92 40 48
Grid Azimuth	93 5 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON
Ref Mon # 2	De QUEEN CORS
Ref Mon # 3	AHTD HOPE, TEXARKANA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460034	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	479,793.5381	
Easting (M)	226,071.2450	
Elevation (M)*	108.662	
Northing (SFT)	1,574,122.6329	
Easting (SFT)	741,702.0763	
Elevation (SFT)*	356.500	

Convergence Angle	-1	2	46.1083952
Scale Factor			0.999984866
Elevation Adjust. Factor			0.9999829478
Combined Adjust. Factor			0.9999678140

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	22	18.3725832
Longitude	93	52	8.9102424
Ellipsoid Height (M):	81.946		
Geoid Height (M):	-26.747		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 ìAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY ì196 7.4 MILES TO THE STATION MARK ON THE RIGHT, EAST 15.30 ìMETERS OF A DRIVE, SOUTH 10.50 METERS OF THE CENTERLINE OF THE ìHIGHWAY AND NORTH 1.0 METER OF A WITNESS POST. THE STATION ìMARK IS A STANDARD 64mm CAP STAMPED "460034 2004" ON TOP OF A ì1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SERVICE POLE WITH GUY	278	25.60	84.0
MK # 2	TELEPHONE RISER	282	25.30	83.0
MK # 3	COMBINATION POLE	293	26.90	88.3

AZ Mark Station	460034A
Geodetic Azimuth	298 20 31
Grid Azimuth	299 23 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460034A	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	480,049.6351
Easting (M)	225,616.5270
Elevation (M)*	111.586
Northing (SFT)	1,574,962.8445
Easting (SFT)	740,210.2223
Elevation (SFT)*	366.096
Convergence Angle	-1 2 56.0537902
Scale Factor	0.999984420
Elevation Adjust. Factor	0.9999824888
Combined Adjust. Factor	0.9999669091

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 22 26.4139968
Longitude	93 52 26.6796912
Ellipsoid Height (M):	84.863
Geoid Height (M):	-26.749

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 ìAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY ì196 7.1 MILES TO THE STATION MARK ON THE LEFT, NORTH ACROSS THE ìROAD FROM GENOA CENTRAL HIGH SCHOOL AND EAST OF A GRAVEL DRIVE ì34.10 METERS. NORTH 9.00 METERS OF THE THE CENTERLINE OF THE ìHIGHWAY AND EAST 41.2 METERS OF A WITNESS POST. THE STATION ìMARK IS A STANDARD 64mm CAP STAMPED "460034A 2004" ON TOP OF A ì1.22 METER IRON ROD DRIVEN 0.10 METERS BELOW GROUND LEVEL.

NOTE: ******* STATION MARK IS 41.2 METERS EAST OF THE WITNESS ìPOST********* SUBSURFACE 0.10 METERS

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	294	41.20	135.2
MK # 2	FLAG POLE	201	31.00	101.7
MK # 3	LIGHT POLE WITH TELEPHONE RISER	234	43.80	143.7

AZ Mark Station	460034
Geodetic Azimuth	118 20 21
Grid Azimuth	119 23 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460035	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	477,445.5511	
Easting (M)	229,953.2320	
Elevation (M)*	107.611	
Northing (SFT)	1,566,419.2789	
Easting (SFT)	754,438.2287	
Elevation (SFT)*	353.055	

Convergence Angle	-1	1	21.1618796
Scale Factor	0.999989040		
Elevation Adjust. Factor	0.9999831125		
Combined Adjust. Factor	0.9999721527		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	4.4465112
Longitude	93	49	37.1362044
Ellipsoid Height (M):	80.963		
Geoid Height (M):	-26.720		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 iAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY i196 10.4 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 11.05 iMETERS OF THE CENTERLINE OF THE HIGHWAY, 7.0 METERS EAST OF A iDRIVE WITH THE ADDRESS 15756 AND NORTH 1.5 METERS OF A WITNESS iPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "460035 i2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE iGROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	265	19.20	63.0
MK # 2	TELEPHONE RISER	325	28.20	92.5
MK # 3				

AZ Mark Station	460035A
Geodetic Azimuth	93 48 59
Grid Azimuth	94 50 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460035A	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	477,382.9851	
Easting (M)	230,692.2990	
Elevation (M)*	109.985	
Northing (SFT)	1,566,214.0103	
Easting (SFT)	756,862.9843	
Elevation (SFT)*	360.841	

Convergence Angle	-1	1	5.1419142
Scale Factor			0.999989131
Elevation Adjust. Factor			0.9999827401
Combined Adjust. Factor			0.9999718713

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	2.8431864
Longitude	93	49	8.5133136
Ellipsoid Height (M):	83.340		
Geoid Height (M):	-26.719		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 ìAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY ì 196 10.85 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 11.25 ìMETERS OF THE CENTERLINE OF THE HIGHWAY AND 8.6 METERS OF A ìDRIVE WITH THE ADRESS 16212. NORTH 1.55 METERS OF A WITNESS ìPOST. THE STATION MARK IS ASTANDARD 64mm CAP STAMPED "460035A ì2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE ìGROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE CORNER	230	2.85	9.4
MK # 2	TELEPHONE RISER	265	20.30	66.6
MK # 3	COMBINATION POLE WITH GUY	256	28.70	94.2

AZ Mark Station	460035
Geodetic Azimuth	273 49 15
Grid Azimuth	274 50 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460036	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	477,631.4591	
Easting (M)	234,529.1350	
Elevation (M)*	69.231	
Northing (SFT)	1,567,029.2121	
Easting (SFT)	769,451.0037	
Elevation (SFT)*	227.134	

Convergence Angle	0	59	42.1930941
Scale Factor	0.999988545		
Elevation Adjust. Factor	0.9999891356		
Combined Adjust. Factor	0.9999776807		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	13.0949352
Longitude	93	46	40.3085604
Ellipsoid Height (M):	42.617		
Geoid Height (M):	-26.717		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 ìAND STATE HIGHWAY 196, IN TEXARKANA, GO EAST ON HIGHWAY 237 ì16.51 MILES TO THE STATION MARK ON THE LEFT, NORTH 25.0 METERS ìOF THE CENTERLINE OF THE HIGHWAY AND EAST 5.60 METERS OF A DRIVEì AND NORTH 1.50 METERS OF A WITNESS POST. THE STATION MARK IS A ìSTANDARD 64mm CAP STAMPED "460036 2004" ON TOP OF A 1.22 METER ìIRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY	145	6.20	20.3
MK # 2	WESTERN MOST GATE POST	211	9.85	32.3
MK # 3	NORTHERN MOST GUY	38	4.00	13.1

AZ Mark Station	460036A
Geodetic Azimuth	89 54 47
Grid Azimuth	90 54 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460036A	7/28/2004	AHTD	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	477,622.6451	
Easting (M)	235,085.1830	
Elevation (M)*	67.964	
Northing (SFT)	1,567,000.2948	
Easting (SFT)	771,275.3046	
Elevation (SFT)*	222.978	

Convergence Angle	0	59	30.1546048
Scale Factor	0.999988543		
Elevation Adjust. Factor	0.9999893344		
Combined Adjust. Factor	0.9999778775		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	13.1217948
Longitude	93	46	18.7993776
Ellipsoid Height (M):	41.343		
Geoid Height (M):	-26.715		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 iAND STATE HIGHWAY 196, IN TEXARKANA, GO EAST ON HIGHWAY 196 i16.84 MILES TO THE STATION MARK ON THE LEFT, NORTH 22.4 METERS iOF THE CENTERLINE OF THE HIGHWAY AND WEST 6.0 METERS OF A GRAVELi GATED ROAD, AND SOUTH 4.05 METERS OF A WITNESS POST. THE iSTATION MARK IS A STANDARD 64mm CAP STAMPED "460036A 2004" ON iTOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWESTERN END OF BRIDGE	145	21.30	69.9
MK # 2	POWER POLE WITH GUY	5	5.25	17.2
MK # 3				

AZ Mark Station	460036
Geodetic Azimuth	269 54 59
Grid Azimuth	270 54 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

3-wire levels were ran from G307-X22-Y22-E310 by B&F Engineering in Job 030321 in July 2005.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460037	9/24/2007	AHTD	MILLER	NA	R30079,030313

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	440,825.8429	
Easting (M)	220,096.4270	
Elevation (M)*		
Northing (SFT)	1,446,276.1196	
Easting (SFT)	722,099.6942	
Elevation (SFT)*		

Convergence Angle	-1	4	39.5835453
Scale Factor			1.000074019
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	1	10.1628444
Longitude	93	55	31.6564248
Ellipsoid Height (M):	63.037		
Geoid Height (M):	-26.403		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 71 AND THE ARKANSAS LOUISIANA STATE LINE, SOUTH OF DODDRIDGE, GO NORTH ON HIGHWAY 71 FOR 2.2 MILES TO COUNTY ROAD 2, TURN LEFT HERE AND GO 0.9 MILES TO A T INTERSECTION, CONTINUE STRAIGHT (WEST) ON COUNTY ROAD 79 FOR 0.7 MILES TO A T INTERSECTION, TURN LEFT HERE (SOUTH) ON COUNTY ROAD 183 AND GO 0.9 MILES TO A COUNTY ROAD NUMBER CHANGE FROM 183 TO 182 (NO TURN INVOLVED) AND CONTINUE ON 1.1 MILES FROM HERE TO A T INTERSECTION AND TURN LEFT HERE (EAST) ON IDA STATELINE ROAD AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, NORTH 24.0 FEET OF THE CENTERLINE AND SOUTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460037 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	158	13.93	45.7
MK # 2				
MK # 3				

AZ Mark Station	460037A
Geodetic Azimuth	89 47 48
Grid Azimuth	90 52 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	460022, 460022A
Ref Mon # 2	460029, 460029A
Ref Mon # 3	LA GPS 8, LA GPS 9

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460037A	9/24/2007	AHTD	MILLER	NA	R30079,030313

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	440,819.3099	
Easting (M)	220,524.5790	
Elevation (M)*		
Northing (SFT)	1,446,254.6859	
Easting (SFT)	723,504.3896	
Elevation (SFT)*		

Convergence Angle	-1	4	30.3500621
Scale Factor			1.000074015
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	1	10.2118908	
Longitude	93	55	15.1589496	
Ellipsoid Height (M):			69.362	
Geoid Height (M):			-26.402	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF ARKANSAS STATE HIGHWAY 71 AND THE ARKANSAS LOUISIANA STATE LINE, SOUTH OF DODDRIDGE, GO NORTH ON HIGHWAY 71 FOR 2.2 MILES TO COUNTY ROAD 2, TURN LEFT HERE AND GO 0.9 MILES TO A T INTERSECTION, CONTINUE STRAIGHT (WEST) ON COUNTY ROAD 79 FOR 0.7 MILES TO A T INTERSECTION, TURN LEFT HERE (SOUTH) ON COUNTY ROAD 183 AND GO 0.9 MILES TO A COUNTY ROAD NUMBER CHANGE FROM 183 TO 182 (NO TURN INVOLVED) AND CONTINUE ON 1.1 MILES FROM HERE TO A T INTERSECTION AND TURN LEFT HERE (EAST) ON IDA STATELINE ROAD AND GO 0.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 15.0 FEET OF THE CENTERLINE AND SOUTH 10.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460037A 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW GROUND LEVEL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	74	3.38	11.1
MK # 2	IRON GATE POST	172	31.03	101.8
MK # 3				

AZ Mark Station	460037
Geodetic Azimuth	269 47 57
Grid Azimuth	270 52 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	460022, 460022A
Ref Mon # 2	460029, 460029A
Ref Mon # 3	LA GPS 8, LA GPS 9

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460038	9/24/2007	AHTD	MILLER	549	R30079,030313

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	448,204.2939	
Easting (M)	223,057.0850	
Elevation (M)*		
Northing (SFT)	1,470,483.5876	
Easting (SFT)	731,813.1197	
Elevation (SFT)*		

Convergence Angle	-1	3	38.6977099
Scale Factor	1.000054191		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	5	11.4042336
Longitude	93	53	42.8716320
Ellipsoid Height (M):	48.068		
Geoid Height (M):	-26.465		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 549 (EXIT 16), WEST OF FOULKE, GO SOUTH ON 549 11.7 MILES TO THE STATION MARK IN THE MEDIAN, SOUTHEAST 17.5 FEET OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE, NORTHWEST 53.5 FEET OF THE EDGE OF PAVEMENT OF THE NORTH BOUND LANE AND SOUTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460038 2007" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460038A
Geodetic Azimuth	209 59 46
Grid Azimuth	211 03 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	460022, 460022A
Ref Mon # 2	460029, 460029A
Ref Mon # 3	LA GPS 8, LA GPS 9

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460038A	9/24/2007	AHTD	MILLER	549	R30079,030313

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	447,745.6499	
Easting (M)	222,780.8830	
Elevation (M)*		

Northing (SFT)	1,468,978.8530	
Easting (SFT)	730,906.9470	
Elevation (SFT)*		

Convergence Angle	-1	3	44.4736963
Scale Factor			1.000055388
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	4	56.3539620
Longitude	93	53	53.1915936
Ellipsoid Height (M):	47.071		
Geoid Height (M):	-26.462		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 549 (EXIT 16), WEST OF FOULKE, GO SOUTH ON 549 12.0 MILES TO THE STATION MARK IN THE MEDIAN, EAST 24.0 FEET OF THE EDGE OF PAVEMENT OF THE SOUTH BOUND LANE, WEST 47.0 FEET OF THE EDGE OF PAVEMENT OF THE NORTH BOUND LANE AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "460038A 2007" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	460038
Geodetic Azimuth	29 59 40
Grid Azimuth	31 03 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	460022, 460022A
Ref Mon # 2	460029, 460029A
Ref Mon # 3	LA GPS 8, LA GPS 9

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460040	10/2/2007	AHTD	Miller	82	030349,030646

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	486,352.4281	0.0010
Easting (M)	217,531.1281	0.0010
Elevation (M)*	107.416	
Northing (SFT)	1,595,641.2579	
Easting (SFT)	713,683.3761	
Elevation (SFT)*	352.415	

Convergence Angle	-1	5	53.7067093
Scale Factor			0.999973821
Elevation Adjust. Factor			0.9999831432
Combined Adjust. Factor			0.9999569646

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	33	25	46.0426332
Longitude	93	57	44.0928288
Ellipsoid Height:			
Grid Northing (Meters)			486,352.4192
Grid Easting (Meters)			217,531.1160

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	25	46.0429320
Longitude	93	57	44.0923680
Ellipsoid Height (M):	80.512		0.0200
Geoid Height (M):	-26.898		

Location Description

To reach the station from the junction of highways 82 and 245 on the southeast side of Texarkana go east on hwy-82 for 2.30 mi. to the station on the right near the center of a gas line right of way. 69.9 feet south of the center of hwy-82, 100.8 feet east of a paved drive and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "460040 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.40 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Gas meter	94	18.29	60.0
MK # 2	Pipe line mileage post #516	252	16.15	53.0
MK # 3	Gas line vent pipe	269	9.75	32.0

AZ Mark Station	460001
Geodetic Azimuth	274 36 44
Grid Azimuth	275 42 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	460026,460026A
Ref Mon # 2	ARHP, B 307
Ref Mon # 3	TXMA, 460001

Comments

3-wire levels ran by crew S5102 in October 07 from 1st order NGS marks G307, B307, & C307. DIGITAL LEVELS WERE RAN FROM NGS BM K 307 BY CREW S5102 DURING JOB 030646 IN MARCH 2025.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460041	8/3/2010	AHTD	Miller	NA	030388,030463

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	486,065.6132	
Easting (M)	210,913.2280	
Elevation (M)*	92.031	
Northing (SFT)	1,594,700.2660	
Easting (SFT)	691,971.1489	
Elevation (SFT)*	301.938	

Convergence Angle	-1	8	16.9418474
Scale Factor	0.999974509		
Elevation Adjust. Factor	0.9999855576		
Combined Adjust. Factor	0.9999600669		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	25	32.5431588
Longitude	94	2	0.0107556
Ellipsoid Height (M):	65.213		
Geoid Height (M):	-26.822		

Location Description

To reach the station from the junction of highways 67, 82 and east Broad street in Texarkana go west on east Broad street for 0.45 miles to the station on the left 46.0 feet south of the center of Broad street and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "460041 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Guy pole	37	24.69	81.0
MK # 2	Sewer manhole	344	12.50	41.0
MK # 3				

AZ Mark Station	460041A
Geodetic Azimuth	41 51 52
Grid Azimuth	43 00 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	TXMA
Ref Mon # 3	TXCR

Comments

Elevation run by crew S5102 in Aug. 2010 from NGS mark E 307 during job 030388.
**********S5112
COULD NOT FIND MARK IN AUG. 2020 & REPORTED DESTROYED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460041A	8/3/2010	AHTD	Miller	NA	030388,030463,030477

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	486,492.3218	0.0030
Easting (M)	211,311.1858	0.0030
Elevation (M)*	89.450	
Northing (SFT)	1,596,100.2258	
Easting (SFT)	693,276.7821	
Elevation (SFT)*	293.470	

Convergence Angle	-1	8	8.5047944
Scale Factor			0.999973791
Elevation Adjust. Factor			0.9999859626
Combined Adjust. Factor			0.9999597540

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18

Latitude	33	25	46.6472460
Longitude	94	1	44.9362632
Ellipsoid Height (M):			62.537
Geoid Height (M):			-26.913

Location Description

To reach the station from the junction of highways 67, 82 and east Broad street in Texarkana go west on Broad street for 0.10 miles to the station on the right, 32.0 feet north of the center of Broad street, 16.2 feet east of the center of a sidewalk to a park, 13.5 feet west of the center of a sidewalk over Nix creek and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "460041A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	25	46.6472856
Longitude	94	1	44.9366052
Ellipsoid Height:			62.626
Grid Northing (Meters)			486,492.3232
Grid Easting (Meters)			211,311.1770

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a guardrail	60	4.97	16.3
MK # 2	Sewer manhole	312	10.15	33.3
MK # 3				

AZ Mark Station	460041
Geodetic Azimuth	221 52 01
Grid Azimuth	223 00 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP (ARHP)
Ref Mon # 2	ARDQ (TXMA)
Ref Mon # 3	SHRV (TXCR)

Comments

Elevation run by crew S5102 in Aug. 2010 from NGS mark E 307 during job 030388.
**********RESTATIC BY S5112 FOR JOB #030477 IN AUG./SEPT. 2020, SS GEOID HT. WAS -26.824m
**********LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460042	2/23/2012	AHTD	Miller	Hwy.67	030417

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:		
Elevation Datum:		
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 7.12 miles to the station on the left,63 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460042 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East of cl hwy.67	325	19.20	63.0
MK # 2	North of double box culvert	239	4.57	15.0
MK # 3	Nw of center of double box culvert	165	10.97	36.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460042A	2/23/2012	AHTD	Miller	Hwy.67	030417

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 7.6 miles to the station on the left,65 feet east of the center of Hwy-67 and 2 feet NW of a witness post. The station mark is a 2 1/2in cap stamped "460042A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	East of cl hwy.67	325	19.80	65.0
MK # 2	NE of 18" CCP	270	14.93	49.0
MK # 3	West of nearest rail	150	24.38	80.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460043	2/23/2012	AHTD	Miller	Hwy.67	030417

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 4.52 miles to the station on the left,64 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460043 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East of cl hwy.67	295	19.50	64.0
MK # 2	SE from center of conc.HW	346	16.46	54.0
MK # 3	West of nearest rail	105	25.60	84.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460043A	2/23/2012	AHTD	Miller	Hwy.67	030417

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach the station from the Miller and Hempstead county line at Fulton go south on Hwy-67 for 4.0 miles to the station on the left,43 feet east of the center of Hwy-67 and 2 feet W of a witness post. The station mark is a 2 1/2in cap stamped "460043A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10ft below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SE of hwy.67	300	13.10	43.0
MK # 2	SW of entrance of RR crossing	30	12.50	41.0
MK # 3	NW of cl of old hwy.67	120	11.28	37.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460044	2/11/2015	AHTD	MILLER	71/59	030449

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	499,896.3886	0.0060
Easting (M)	210,429.8925	0.0050
Elevation (M)*	87.301	

Northing (SFT)	1,640,076.7349	
Easting (SFT)	690,385.4056	
Elevation (SFT)*	286.419	

Convergence Angle	-1	8	33.3868390
Scale Factor	0.999953933		
Elevation Adjust. Factor	0.9999862999		
Combined Adjust. Factor	0.9999402335		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	33	33	1.0751112
Longitude	94	2	29.3930412
Ellipsoid Height (M):	60.280	0.0070	
Geoid Height (M):	-27.012	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I 30, NORTH OF TEXARKANA, GO NORTH ON HIGHWAY 71/59 FROM THE INTERSECTION OF HIGHWAY 71/59 AND INTERSATE 30 FOR 6.6 MILES TO THE STATION ON THE LEFT. THE POINT IS A 2 1/2 INCH ALUMINUM CAP STAMPED "2015 460044" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 11.8 FOOT SOUTH OF A WITNESS POST, 27 FOOT WEST OF THE CENTERLINE OF HIGHWAY 71/59, 13.7 FOOT SOUTH OF THE SOUTHWEST BRIDGE CORNER.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST BRIDGE CORNER		13.70	44.9
MK # 2				
MK # 3				

AZ Mark Station	460044A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SHRV
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS 1ST ORDER BM P 261 BY S5112 FOR JOB #030449 IN FEBRUARY 2015. PERFORMED STATIC OBSERVATION ON NGS 1ST BM M 261 AS A CHECK AND USED IT AS A VERTICAL CONSTRAINT ALONG WITH ARHP & ARCM CORS SITES IN FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460044A	2/11/2015	AHTD	MILLER	71/59	030449

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	499,275.7159	0.0060
Easting (M)	210,290.5896	0.0050
Elevation (M)*	83.988	
Northing (SFT)	1,638,040.4112	
Easting (SFT)	689,928.3760	
Elevation (SFT)*	275.550	

Convergence Angle	-1	8	36.1399799
Scale Factor			0.999954761
Elevation Adjust. Factor			0.9999868198
Combined Adjust. Factor			0.9999415814

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	33	32	40.8425136	
Longitude	94	2	34.3120812	
Ellipsoid Height (M):			56.968	0.0060
Geoid Height (M):			-27.008	0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71/59 AND I 30, NORTH OF TEXARKANA, GO NORTH ON HIGHWAY 71/59 FROM THE INTERSECTION OF HIGHWAY 71/59 AND INTERSATE 30 FOR 6.5 MILES THEN TURN LEFT WEST ONTO THE CROSSROAD LINKING THE SOUTH BOUND SIDE AND THE NORTH BOUND SIDE, TURN LEFT SOUTH ON THE ACCESS ROAD TO THE REST AREA .1 OF A MILE TO THE STATION ON THE LEFT. THE POINT IS A 2 1/2 INCH ALUMINUM CAP STAMPED :2015 460044A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND, 51.8 FOOT NORTHWEST OF THE SOUTH END OF A CULVERT, 96.1 FOOT SOUTHEAST OF A LIGHT POLE, 23.2 FOOT NORTH OF THE EDGE OF THE PAVEMENT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF CULVERT		51.80	169.9
MK # 2	LIGHT POLE		96.10	315.3
MK # 3	EDGE OF PAVEMENT		23.20	76.1

AZ Mark Station	460044
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SHRV
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

ELEV. BASED ON 3RD ORDER DIGITAL LEVELS FROM A SINGLE NGS 1ST ORDER BM P 261 BY S5112 FOR JOB #030449 IN FEBRUARY 2015. PERFORMED STATIC OBSERVATION ON NGS 1ST BM M 261 AS A CHECK AND USED IT AS A VERTICAL CONSTRAINT ALONG WITH ARHP & ARCM CORS SITES IN FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460045	8/25/2020	ARDOT	MILLER	BROAD S	030477

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	486,058.5763	0.0030
Easting (M)	210,909.4468	0.0030
Elevation (M)*	92.102	

Northing (SFT)	1,594,677.1791	
Easting (SFT)	691,958.7434	
Elevation (SFT)*	302.171	

Convergence Angle	-1	8	17.0207242
Scale Factor	0.999974521		
Elevation Adjust. Factor	0.9999855464		
Combined Adjust. Factor	0.9999600678		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	33	25	32.3123556
Longitude	94	2	0.1516848
Ellipsoid Height (M):	65.192		
Geoid Height (M):	-26.910		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 82, IN TEXARKANA, GO WEST ON BROAD STREET FOR 0.45 MILES TO THE MARK ON THE LEFT, SOUTH 79.7' OF THE STREET AND 10.6' NORTH OF THE NEAREST RAIL.THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 460045" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	17	16.40	53.8
MK # 2	LIGHT POLE	270	28.16	92.4
MK # 3	SW CORNER BRIDGE PIER	45	23.99	78.7

AZ Mark Station	460041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARDQ
Ref Mon # 3	SHRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 & B 1497 **********LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460046	8/25/2020	ARDOT	MILLER	71	030477, 030575

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)

Northing (M)	490,975.3858	0.0010
Easting (M)	210,128.4831	0.0010
Elevation (M)*	120.207	

Northing (SFT)	1,610,808.4116	
Easting (SFT)	689,396.5316	
Elevation (SFT)*	394.379	

Convergence Angle	-1	8	36.0629649
Scale Factor			0.999966688
Elevation Adjust. Factor			0.9999811360
Combined Adjust. Factor			0.9999478246

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	33	28	11.3710944
Longitude	94	2	34.1749680
Ellipsoid Height:			93.261
Grid Northing (Meters)			490,975.3968
Grid Easting (Meters)			210,128.4706

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	28	11.3707452	
Longitude	94	2	34.1744784	
Ellipsoid Height (M):			93.228	0.0040
Geoid Height (M):			-26.946	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND I 30, NORTH OF TEXARKANA, THE MARK IS LOCATED AT THE SOUTHEAST CORNER OF THE HIGHWAY 71 OVERPASS OVER I 30. MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 460046" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER BRIDGE	0	7.44	24.4
MK # 2	LIGHT POLE	160	9.20	30.2
MK # 3	SIGNAL POLE	202	24.14	79.2

AZ Mark Station	460046A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARDQ
Ref Mon # 3	SHRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 & B 1497
**********LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.
**********UPDATED STATIC POSITION IN DEC. 2022 FOR JOB #030575, SUPERCEDED NAD 83 (2011) POSITION WAS BASED ON CORS SITES ARHP, ARDQ & SHRV &

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460046A	8/25/2020	ARDOT	MILLER	71	030477, 030575

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	490,981.8190	0.0010
Easting (M)	210,617.8777	0.0010
Elevation (M)*	107.834	
Northing (SFT)	1,610,829.5178	
Easting (SFT)	691,002.1538	
Elevation (SFT)*	353.787	

Convergence Angle	-1	8	25.4593750
Scale Factor			0.999966663
Elevation Adjust. Factor			0.9999830775
Combined Adjust. Factor			0.9999497411

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	33	28	11.8964604
Longitude	94	2	15.2291976
Ellipsoid Height:			80.888
Grid Northing (Meters)			490,981.8307
Grid Easting (Meters)			210,617.8737

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	28	11.8960824	
Longitude	94	2	15.2290320	
Ellipsoid Height (M):			80.856	0.0040
Geoid Height (M):			-26.947	0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND REALTOR AVE, NORTH OF TEXARKANA, GO EAST ON REALTOR AVE 0.30 MILES TO THE MARK ON THE LEFT, SOUTH 34.6' OF THE EDGE OF THE PAVEMENT OF THE EAST BOUND LANE OF I 30 AND NORTH OF THE EDGE OF PAVEMENT OF REALTOR AVE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 460046A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	ELECTRIC BOX	78	14.60	47.9
MK # 2				
MK # 3				

AZ Mark Station	460046
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARDQ
Ref Mon # 3	SHRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN SEPT. 2020 FOR JOB #030477 FROM 1ST ORDER NGS BM's H 307, A 1497 & B 1497
**********LEVELED ELEV. USED AS CONSTRAINT IN FINAL STATIC ADJ.
**********UPDATED STATIC POSITION IN DEC. 2022 FOR JOB #030575, SUPERCEDED NAD 83 (2011) POSITION WAS BASED ON CORS SITES ARHP, ARDQ & SHRV.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460047	10/3/2023	ARDOT	Miller	Mitigation	DAYS CREEK MITIGATION

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	469,512.0453	0.0010
Easting (M)	215,889.0764	0.0010
Elevation (M)*	60.884	
Northing (SFT)	1,540,390.7686	
Easting (SFT)	708,296.0782	
Elevation (SFT)*	199.751	

Convergence Angle	-1	6	22.2336755
Scale Factor	1.000005102		
Elevation Adjust. Factor	0.9999904454		
Combined Adjust. Factor	0.9999955473		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	16	38.4987036
Longitude	93	58	35.0615316
Ellipsoid Height (M):	34.116	0.0090	
Geoid Height (M):	-26.768		

Location Description

From the intersection of Interstate 49 and Hwy 234 travel South on Hwy 237 for 5.3 miles to County Rd. 225 on the left. Go down said county road for 1 mile to a gate. Beyond gate travel East along trail 0.3 miles to the mark on right side of the trail.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2" THORN TREE	65	7.01	23.0
MK # 2	TRAIL	0	11.00	36.1
MK # 3				

AZ Mark Station	460047
Geodetic Azimuth	63 34 08
Grid Azimuth	64 40 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	1LNT
Ref Mon # 3	ARMN

Comments

Elevations determined by Static GPS holding ARP height at ARHP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460047A	10/3/2023	ARDOT	Miller	Mitigation	DAYS CREEK MITIGATION

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD83 (2011)	
Northing (M)	469,587.3702	0.0010
Easting (M)	216,048.2413	0.0010
Elevation (M)*	60.990	
Northing (SFT)	1,540,637.8971	
Easting (SFT)	708,818.2717	
Elevation (SFT)*	200.098	

Convergence Angle	-1	6	18.8232927
Scale Factor	1.000004941		
Elevation Adjust. Factor	0.9999904288		
Combined Adjust. Factor	0.9999953697		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	33	16	41.0428956	
Longitude	93	58	28.9681968	
Ellipsoid Height (M):	34.221			0.0090
Geoid Height (M):	-26.768			

Location Description

From the intersection of Interstate 49 and Hwy 234 travel South on Hwy 237 for 5.3 miles to County Rd. 225 on the left. Go down said county road for 1 mile to a gate. Beyond gate travel East along trail 0.5 miles to the mark on right side of the trail on creek bank.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	30" OAK TREE	250	39.50	129.6
MK # 2	28" OAK TREE	150	20.00	65.6
MK # 3				

AZ Mark Station	460047A
Geodetic Azimuth	243 34 08
Grid Azimuth	244 40 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	1LNT
Ref Mon # 3	ARMN

Comments

Elevations determined by Static GPS holding ARP height at ARHP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460048	10/3/2023	ARDOT	Miller	Mitigation	DAYS CREEK MITIGATION

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD83 (2011)	
Northing (M)	470,578.6076	0.0010
Easting (M)	216,574.0323	0.0010
Elevation (M)*	60.578	
Northing (SFT)	1,543,889.9818	
Easting (SFT)	710,543.3043	
Elevation (SFT)*	198.747	

Convergence Angle	-1	6	7.8657820
Scale Factor	1.000002892		
Elevation Adjust. Factor	0.9999904934		
Combined Adjust. Factor	0.9999933854		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	17	13.5400128
Longitude	93	58	9.3903996
Ellipsoid Height (M):	33.805	0.0090	
Geoid Height (M):	-26.773		

Location Description

From the intersection of Interstate 49 and Hwy 234 travel South on Hwy 237 for 5.3 miles to County Rd. 225 on the left. Go down said county road for 1 mile to a gate. Beyond gate travel East along trail 1.25 miles to the power line go right on the power line 460 feet to the mark.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	244	14.50	47.6
MK # 2	POWER POLE	118	83.80	274.9
MK # 3				

AZ Mark Station	460048A
Geodetic Azimuth	293 04 18
Grid Azimuth	294 10 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	1LNT
Ref Mon # 3	ARMN

Comments

Elevations determined by Static GPS holding ARP height at ARHP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460048A	10/3/2023	ARDOT	Miller	Mitigation	DAYS CREEK MITIGATION

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	470,687.0479	0.0020
Easting (M)	216,332.4358	0.0020
Elevation (M)*	60.742	

Northing (SFT)	1,544,245.7563	
Easting (SFT)	709,750.6665	
Elevation (SFT)*	199.284	

Convergence Angle	-1	6	13.1358787
Scale Factor	1.000002681		
Elevation Adjust. Factor	0.9999904677		
Combined Adjust. Factor	0.9999931487		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	17	16.9082556
Longitude	93	58	18.8064876
Ellipsoid Height (M):	33.967	0.0090	
Geoid Height (M):	-26.775		

Location Description

From the intersection of Interstate 49 and Hwy 234 travel South on Hwy 237 for 5.3 miles to County Rd. 225 on the left. Go down said county road for 1 mile to a gate. Beyond gate travel East along trail 1.25 miles to the power line go left on the power line 400 feet to the mark.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	110	72.00	236.2
MK # 2	POWER POLE	288	15.50	50.9
MK # 3				

AZ Mark Station	460048
Geodetic Azimuth	113 04 18
Grid Azimuth	114 10 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	1LNT
Ref Mon # 3	ARMN

Comments

Elevations determined by Static GPS holding ARP height at ARHP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460049	2/26/2024	AHTD	Miller	134	03X521

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83(2011)

Northing (M)	463,222.1490	0.0010
Easting (M)	232,798.6934	0.0010
Elevation (M)*	64.549	0.0062
Northing (SFT)	1,519,754.6672	
Easting (SFT)	763,773.7133	
Elevation (SFT)*	211.773	

Convergence Angle	-1	0	14.1816272
Scale Factor	1.000017855		
Elevation Adjust. Factor	0.9999898703		
Combined Adjust. Factor	1.0000077252		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	13	24.4777476
Longitude	93	47	37.4625096
Ellipsoid Height (M):	37.887	0.0060	
Geoid Height (M):	-26.662		

Location Description

To reach from the intersection of Hwy 134 and Hwy 71 near Fouke in Miller county, travel east along Hwy 134 for 5.4 miles to the staion on the left. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 460049, 2024 set just below the surface of the ground on top of a 5/8in rebar 4ft in length. The station is 20ft north of the centerline of Hwy 134 and 82ft west of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	West of West Gate Post	260	25.00	82.0
MK # 2				
MK # 3				

AZ Mark Station	460049A
Geodetic Azimuth	90 58 14.9
Grid Azimuth	91 58 29.1

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARTX
Ref Mon # 2	1LNT
Ref Mon # 3	ARMB

Comments

ELEV DETERMINED BY STATIC OBS HOLDING BM C 259 DURING JOB 03X521 BY CREW S5102 IN FEB 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460049A	2/26/2024	AHTD	Miller	134	03X521

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83(2011)

Northing (M)	463,207.9254	0.0010
Easting (M)	233,211.6468	0.0010
Elevation (M)*	64.724	0.0063
Northing (SFT)	1,519,708.0019	
Easting (SFT)	765,128.5445	
Elevation (SFT)*	212.347	

Convergence Angle	-1	0	5.2517773
Scale Factor			1.000017871
Elevation Adjust. Factor			0.9999898429
Combined Adjust. Factor			1.0000077137

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	13	24.2507028
Longitude	93	47	21.5075364
Ellipsoid Height (M):	38.060		0.0060
Geoid Height (M):	-26.661		

Location Description

To reach from the intersection of Hwy 134 and Hwy 71 near Fouke in Miller county, travel east along Hwy 134 for 5.7 miles to the station on the left. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 460049A, 2024 set just below the surface of the ground on top of a 5/8in rebar 4ft in length. The station is 20ft north of the centerline of Hwy 134 and 3ft south of a witness post.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	294	45.50	149.3
MK # 2				
MK # 3				

AZ Mark Station	460049
Geodetic Azimuth	270 58 14.9
Grid Azimuth	271 58 20.2

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARTX
Ref Mon # 2	1LNT
Ref Mon # 3	ARMB

Comments

ELEV DETERMINED BY STATIC OBS HOLDING BM C 259 AND EST ELEV ON GPS 460049. DIGITAL LEVELS WERE RAN FROM 460049 TO EST ELEV ON 460049A DURING JOB 03X521 BY CREW S5102 IN FEB 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470001-96	11/3/1997	AHTD	MISSISSIPPI	18	100302

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	173,427.1009	
Easting (M)	580,782.2030	
Elevation (M)*	73.199	
Northing (SFT)	568,985.4135	
Easting (SFT)	1,905,449.6110	
Elevation (SFT)*	240.154	

Convergence Angle	1	9	54.3975602
Scale Factor			0.999949215
Elevation Adjust. Factor			0.9999885128
Combined Adjust. Factor			0.9999377284

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:			
Latitude	35	52	47.9254044
Longitude	89	59	51.8820324
Ellipsoid Height (M):	44.572		
Geoid Height (M):	-28.627		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 0.29 KM (0.18 MI) TO THE STATION ON THE LEFT. THE STATION IS SET 30.692 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 18 AND 1.16 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470001 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	324	1.41	4.6
MK # 2	USC&GS BM=L 185 1956	178	28.45	93.3
MK # 3	TELEPHONE JUNCTION BOX	94	74.97	246.0

AZ Mark Station	470001A
Geodetic Azimuth	54 02 16.56998
Grid Azimuth	52 52 22.21276

Area Reference Monuments (used for Processing)

Ref Mon # 1	KENNPORT
Ref Mon # 2	MANIPORT
Ref Mon # 3	VILLPORT

Comments

THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK NUMBER, "L 185" ELEVATION = 73.780 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470001A-96	11/3/1997	AHTD	MISSISSIPPI	18	100302

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	173,785.8939	
Easting (M)	581,256.1460	
Elevation (M)*	73.271	
Northing (SFT)	570,162.5536	
Easting (SFT)	1,907,004.5390	
Elevation (SFT)*	240.390	

Convergence Angle	1	10	5.5603571
Scale Factor			0.999949500
Elevation Adjust. Factor			0.9999885015
Combined Adjust. Factor			0.9999380021

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:			
Latitude	35	52	59.2515372
Longitude	89	59	32.6986440
Ellipsoid Height (M):	44.640		
Geoid Height (M):	-28.631		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 0.88 KM (0.54 MI) TO THE STATION ON THE LEFT. THE STATION IS SET 30.602 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 18 AND 1.320 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 470001A 1997" SET ON TOP OF AN IRON ROD1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	322	1.49	4.9
MK # 2	TELEPHONE JUNCTION BOX	118	53.62	175.9
MK # 3	WOODEN CORNER FENCE POST	162	51.35	168.5

AZ Mark Station	470001
Geodetic Azimuth	234 02 27.81359
Grid Azimuth	232 52 22.21276

Area Reference Monuments (used for Processing)

Ref Mon # 1	KENNPORT
Ref Mon # 2	MANIPORT
Ref Mon # 3	VILLPORT

Comments

THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK NUMBER, "M 185" ELEVATION = 73.901 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470002-96	11/3/1997	AHTD	MISSISSIPPI	18	100302

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	176,209.7069	
Easting (M)	584,135.8040	
Elevation (M)*	75.172	
Northing (SFT)	578,114.6801	
Easting (SFT)	1,916,452.2170	
Elevation (SFT)*	246.627	

Convergence Angle	1	11	13.5211049
Scale Factor	0.999951504		
Elevation Adjust. Factor	0.9999882032		
Combined Adjust. Factor	0.9999397078		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	54	15.9590952
Longitude	89	57	35.9073576
Ellipsoid Height (M):	46.515		
Geoid Height (M):	-28.657		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 4.67 KM (2.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET 41.027 METERS NORTHEAST OF A GRAVEL DRIVE, 12.507 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 18 AND 1.00 METER NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	214	33.21	108.9
MK # 2	REINFORCED CONCRETE PIPE 0.70 METER S	222	36.73	120.5
MK # 3	COMBINATION POLE	42	56.53	185.4

AZ Mark Station	470002A
Geodetic Azimuth	38 15 59.41765
Grid Azimuth	37 04 45.92218

Area Reference Monuments (used for Processing)

Ref Mon # 1	KENNPORT
Ref Mon # 2	MANIPORT
Ref Mon # 3	VILLPORT

Comments

THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION BY 3-WIRE LEVELING STARTING ON NGS BM Q 185 (ELEV=75.525m NAVD88 DATUM), AND ENDING ON NGS BM R 185 (ELEV=76.229m NAVD88 DATUM) WITH AN ERROR OF 0.006mm.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470002A-96	11/3/1997	AHTD	MISSISSIPPI	18	100302

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	176,573.7219	
Easting (M)	584,410.9010	
Elevation (M)*	75.603	
Northing (SFT)	579,308.9526	
Easting (SFT)	1,917,354.7644	
Elevation (SFT)*	248.041	

Convergence Angle	1	11	20.0791488
Scale Factor	0.999951820		
Elevation Adjust. Factor	0.9999881356		
Combined Adjust. Factor	0.9999399561		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	54	27.5825052
Longitude	89	57	24.6372876
Ellipsoid Height (M):	46.941		
Geoid Height (M):	-28.662		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 8.05 KM (5.00 MI) SOUTHWEST OF BLYTHEVILLE, GO NORTHEAST ON STATE HIGHWAY 18 FOR 5.15 KM (3.2 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET 118.255 METERS SOUTHWEST OF A PAVED DRIVEWAY, 11.767 METERS SOUTHEAST OF THE CENTER OF STATE HIGWAY 18 AND 1.00 METER NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470002A 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	42	47.15	154.7
MK # 2	COMBINATION POLE	206	42.41	139.1
MK # 3	SOUTHWEST CORNER OF A BRICK FENCE	64	85.02	278.9

AZ Mark Station	470002
Geodetic Azimuth	218 16 06.02707
Grid Azimuth	217 04 45.92218

Area Reference Monuments (used for Processing)

Ref Mon # 1	KENNPORT
Ref Mon # 2	MANIPORT
Ref Mon # 3	VILLPORT

Comments

THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. ELEVATION BY 3-WIRE LEVELING STARTING ON NGS BM Q 185 (ELEV=75.525m NAVD88 DATUM), AND ENDING ON NGS BM R 185 (ELEV=76.229m NAVD88 DATUM) WITH AN ERROR OF 0.006mm.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470003	11/3/1997	AHTD	MISSISSIPPI	18	100302,100663

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	178,364.1849
Easting (M)	586,147.3310
Elevation (M)*	76.190
Northing (SFT)	585,183.1633
Easting (SFT)	1,923,051.7018
Elevation (SFT)*	249.968
Convergence Angle	1 12 1.2394964
Scale Factor	0.999953412
Elevation Adjust. Factor	0.9999880434
Combined Adjust. Factor	0.9999414560

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 55 24.4893432
Longitude	89 56 13.9027812
Ellipsoid Height (M):	47.501
Geoid Height (M):	-28.684

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 151, LOCATED ON THE WEST SIDE OF BLYTHEVILLE, GO SOUTHWEST ON STATE HIGHWAY 18 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE LEFT. THE STATION IS SET 17.827 METERS SOUTH SOUTHEAST OF THE CENTER OF STATE HIGHWAY 18, 10.563 METERS WEST SOUTHWEST OF A PAVED ENTRANCE TO ALLEN AC/SHEET METAL AND 0.51 METERS NORTH NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470003 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE 0.50 METERS	357	5.18	17.0
MK # 2	CONCRETR R/W MARKER	132	0.55	1.8
MK # 3	NE CORNER OF ALLEN AC/SHEET METAL BUILDING	194	19.77	64.9

AZ Mark Station	470003A
Geodetic Azimuth	51 40 02.23286
Grid Azimuth	50 28 01.04169

Area Reference Monuments (used for Processing)

Ref Mon # 1	KENNPORT
Ref Mon # 2	MANIPORT
Ref Mon # 3	VILLPORT

Comments

THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES. 3-Wire Levels ran to mark from 1st Order NGS marks B189 & E189 by crew S5102 & S5110.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470003A	11/3/1997	AHTD	MISSISSIPPI	18	100302

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	178,771.9479	
Easting (M)	586,641.4060	
Elevation (M)*	75.973	
Northing (SFT)	586,520.9657	
Easting (SFT)	1,924,672.6795	
Elevation (SFT)*	249.255	

Convergence Angle	1	12	12.9044404
Scale Factor			0.999953783
Elevation Adjust. Factor			0.9999880775
Combined Adjust. Factor			0.9999418611

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	37.3805688
Longitude	89	55	53.8564476
Ellipsoid Height (M):	47.247		
Geoid Height (M):	-28.688		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGWAY 18 AND STATE HIGWAY 151, LOCATED ON THE WEST SIDE OF BLYTHEVILLE, GO SOUTHWEST ON STATE HIGWAY 18 FOR 0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET 14.105 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 18, 12.925 METERS NORTHEAST OF A FIELD ENTRANCE AND 1.00 METER SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470003A 1997" SET ON TOP OF AN IRON ROD 0.50 NETERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	240	32.05	105.1
MK # 2	TELEPHONE JUNCTION BOX	182	41.67	136.7
MK # 3	SOUTHWEST END OF LINE BRACE WOODEN POST	137	32.56	106.8

AZ Mark Station	470003
Geodetic Azimuth	231 40 13.99463
Grid Azimuth	230 28 01.04169

Area Reference Monuments (used for Processing)

Ref Mon # 1	KENNPORT
Ref Mon # 2	MANIPORT
Ref Mon # 3	VILLPORT

Comments

THIS IS THE FIRST JOB TO USE THE 1997 ARKANSAS H.A.R.N. COORDINATES.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470004	10/18/2000	AHTD	MISSISSIPPI	18	100491,100663

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	178,309.2245
Easting (M)	596,069.5888
Elevation (M)*	78.135
Northing (SFT)	585,002.8474
Easting (SFT)	1,955,604.9759
Elevation (SFT)*	256.348

Convergence Angle	1	15	51.4745876
Scale Factor			0.999953163
Elevation Adjust. Factor			0.9999877382
Combined Adjust. Factor			0.9999409018

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	15.7826939
Longitude	89	49	38.2412651
Ellipsoid Height (M):	50.079		
Geoid Height (M):	-27.989		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 1.61 KM (1.00 MI) WEST OF ARMOREL, GO WEST ON STATE HIGHWAY 18 FOR 1.44KM (0.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 18, 5.55 METERS NORTH OF THE NORTH RAIL AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 517.224 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	80	14.95	49.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	470004A
Geodetic Azimuth	87 51 43.149665
Grid Azimuth	86 35 51.724263

Area Reference Monuments (used for Processing)

Ref Mon # 1	MANIPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	COTTON 2 RM5

Comments

Elevation based on 3-wire from NGS point V 185

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470004A	10/18/2000	AHTD	MISSISSIPPI	18	100491

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	178,339.9178
Easting (M)	596,585.8682
Elevation (M)*	77.007
Northing (SFT)	585,103.5470
Easting (SFT)	1,957,298.8026
Elevation (SFT)*	252.647

Convergence Angle	1	16	3.4711303
Scale Factor			0.999953181
Elevation Adjust. Factor			0.9999879152
Combined Adjust. Factor			0.9999410968

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	16.4082396
Longitude	89	49	17.6250756
Ellipsoid Height (M):	48.977		
Geoid Height (M):	-27.988		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 312, LOCATED ABOUT 1.61 KM (1.00 MI) WEST OF ARMOREL, GO WEST ON STATE HIGHWAY 18 FOR 0.94 KM (0.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.54 METERS NORTH OF THE CENTER OF STATE HIGHWAY 18, 14.00 METERS WEST OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE SHOT DISTANCE IS 517.224 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF CMP	98	9.22	30.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	470004
Geodetic Azimuth	267 51 55.24459
Grid Azimuth	266 35 51.72426

Area Reference Monuments (used for Processing)

Ref Mon # 1	MANIPORT
Ref Mon # 2	KENNPORT
Ref Mon # 3	COTTON 2 RM5

Comments

Elevation based on 3-wire from NGS point V 185

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470005	8/2/2001	AHTD	MISSISSIPPI	137	100538

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	180,938.9759
Easting (M)	599,694.9820
Elevation (M)*	
Northing (SFT)	593,630.6234
Easting (SFT)	1,967,499.2868
Elevation (SFT)*	
Convergence Angle	1 17 16.9769342
Scale Factor	0.999955595
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	38.4673164
Longitude	89	47	11.3045496
Ellipsoid Height (M):	50.150		
Geoid Height (M):	-28.030		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO WEST ON STATE HIGHWAY 137 FOR 0.129 KM (0.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.00 METERS WEST OF MISSISSIPPI COUNTY ROAD N917, 11.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 137, AND 0.46 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470005 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 721.372 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	470005A
Geodetic Azimuth	269 34 48
Grid Azimuth	268 17 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	COTTON 2 RM 5
Ref Mon # 2	MANIPORT
Ref Mon # 3	KENNPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470005A	8/2/2001	AHTD	MISSISSIPPI	137	100538

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	180,917.4749	
Easting (M)	598,973.9680	
Elevation (M)*		
Northing (SFT)	593,560.0822	
Easting (SFT)	1,965,133.7600	
Elevation (SFT)*		

Convergence Angle	1	17	0.2292016
Scale Factor	0.999955589		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	38.2947900
Longitude	89	47	40.0857108
Ellipsoid Height (M):	49.086		
Geoid Height (M):	-28.031		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO WEST ON STATE HIGHWAY 137 FOR 0.853 KM (0.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 137 AND 0.54 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470005A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 721.372 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	470005
Geodetic Azimuth	89 34 31
Grid Azimuth	88 17 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	COTTON 2 RM 5
Ref Mon # 2	MANIPORT
Ref Mon # 3	KENNPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470006	8/2/2001	AHTD	MISSISSIPPI	N/A	100538

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	181,069.8549
Easting (M)	604,610.1560
Elevation (M)*	
Northing (SFT)	594,060.0156
Easting (SFT)	1,983,625.1535
Elevation (SFT)*	
Convergence Angle	1 19 11.1388459
Scale Factor	0.999955613
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 56 39.0837300
Longitude	89 43 55.1160588
Ellipsoid Height (M):	49.818
Geoid Height (M):	-28.024

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO EAST ON STATE HIGHWAY 137 FOR 4.828KM (3.00 MI) TO THE VILLAGE OF HICKMAN AND THE JUNCTION WITH MISSISSIPPI COUNTY ROAD E 142, CONTINUE EAST ON MISSISSIPPI COUNTY ROAD E 142 FOR 0.724 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.30 METERS NORTH OF THE CENTER OF MISSISSIPPI COUNTY ROAD E 142 AND 0.46 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470006 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.554 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	470006A
Geodetic Azimuth	88 51 25
Grid Azimuth	87 32 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	COTTON 2 RM 5
Ref Mon # 2	MANIPORT
Ref Mon # 3	KENNPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470006A	8/2/2001	AHTD	MISSISSIPPI	N/A	100538

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	181,097.1649
Easting (M)	605,245.0880
Elevation (M)*	
Northing (SFT)	594,149.6152
Easting (SFT)	1,985,708.2595
Elevation (SFT)*	

Convergence Angle	1	19	25.8916612
Scale Factor			0.999955626
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	39.4943748
Longitude	89	43	29.7631848
Ellipsoid Height (M):	50.174		
Geoid Height (M):	-28.024		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 137 AND STATE HIGHWAY 137 SPUR, LOCATED ABOUT 2 MILES NORTH OF ARMOREL, GO EAST ON STATE HIGHWAY 137 FOR 4.828 KM (3.00 MI) TO THE VILLAGE OF HICKMAN AND THE JUNCTION WITH MISSISSIPPI COUNTY ROAD E 142, CONTINUE EAST ON MISSISSIPPI COUNTY ROAD E 142 FOR 0.724 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 40 METERS WEST OF THE CENTER OF A GRAVEL DRIVE, 7.80 METERS NORTH OF THE CENTER OF MISSISSIPPI COUNTY ROAD E 142, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "470006A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.554 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	470006
Geodetic Azimuth	268 51 39
Grid Azimuth	267 32 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	COTTON 2 RM 5
Ref Mon # 2	MANIPORT
Ref Mon # 3	KENNPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470007	6/11/2002	AHTD	MISSISSIPPI	18	100308

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	173,931.2199
Easting (M)	557,263.6170
Elevation (M)*	70.084
Northing (SFT)	570,639.3440
Easting (SFT)	1,828,289.0501
Elevation (SFT)*	229.934

Convergence Angle	1	0	49.0630319
Scale Factor			0.999949997
Elevation Adjust. Factor			0.9999890017
Combined Adjust. Factor			0.9999389992

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	18.7874736
Longitude	90	15	29.0453688
Ellipsoid Height (M):	42.039		
Geoid Height (M):	-28.004		

Location Description

TO REACH THE STATION FROM THE CRAIGHEAD - MISSISSIPPI COUNTY LINE, GO EAST 1.62 MILES TO THE STATION ON THE LEFT AT THE NORTHWEST CORNER OF THE JUNCTION OF HWY. 18 AND HWY. 119. THE STATION IS 16.50 METERS FROM THE CENTERLINE OF HWY 18, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "47007 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	284	9.10	29.9
MK # 2	SOUTHWEST CORNER BRICK SIGN	53	21.50	70.5
MK # 3	SOUTH END CONCRETE HEADWALL	92	23.40	76.8

AZ Mark Station	470007A
Geodetic Azimuth	4 25 05
Grid Azimuth	3 24 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 231.5042 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470007A	6/11/2002	AHTD	MISSISSIPPI	119	100308, 100653

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	174,478.3769
Easting (M)	557,296.1680
Elevation (M)*	70.563
Northing (SFT)	572,434.4749
Easting (SFT)	1,828,395.8445
Elevation (SFT)*	231.505

Convergence Angle	1	0	50.0428122
Scale Factor			0.999950456
Elevation Adjust. Factor			0.9999889265
Combined Adjust. Factor			0.9999393830

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	36.5194032
Longitude	90	15	27.3616056
Ellipsoid Height (M):	42.508		
Geoid Height (M):	-28.013		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 119 ABOUT 1.62 MILES EAST OF THE CRAIGHEAD - MISSISSIPPI COUNTY LINE, GO NORTH ON HIGHWAY 119 0.32 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.40 METERS FROM THE CENTERLINE OF HIGHWAY 119, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED " 470007A 2002" SET ON TOP OF A 1.22M IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	281	21.25	69.7
MK # 2	GAS METER	260	21.00	68.9
MK # 3	UNDERGROUND CABLE MARKER	155	8.65	28.4

AZ Mark Station	470007
Geodetic Azimuth	184 25 06
Grid Azimuth	183 24 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 229.9326 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470008A	6/11/2002	AHTD	MISSISSIPPI	18	100308,100654, 100653

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	173,931.1159	
Easting (M)	563,684.4310	
Elevation (M)*	71.861	
Northing (SFT)	570,639.0027	
Easting (SFT)	1,849,354.6707	
Elevation (SFT)*	235.764	

Convergence Angle	1	3	18.0151961
Scale Factor			0.999949901
Elevation Adjust. Factor			0.9999887228
Combined Adjust. Factor			0.9999386244

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	15.0234144
Longitude	90	11	13.0694496
Ellipsoid Height (M):	43.881		
Geoid Height (M):	-27.980		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO WEST ON HIGHWAY 18 0.61 MILES TO THE STATION ON THE RIGHT. THE STATION IS 9.30 METERS FROM THE CENTERLINE OF HIGHWAY 18, 24.0 METERS FROM THE CENTERLINE OF AN ASPHALT DRIVEWAY, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470008A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END CORRUGATED METAL PIPE	286	21.35	70.0
MK # 2	POWER POLE	312	16.65	54.6
MK # 3				

AZ Mark Station	470008
Geodetic Azimuth	272 23 53
Grid Azimuth	271 20 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 237.4426 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470009	6/11/2002	AHTD	MISSISSIPPI	N/A	100307,100654

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	171,835.7420
Easting (M)	567,456.9950
Elevation (M)*	73.332
Northing (SFT)	563,764.4302
Easting (SFT)	1,861,731.8244
Elevation (SFT)*	240.590

Convergence Angle	1	4	44.6150250
Scale Factor			0.999948160
Elevation Adjust. Factor			0.9999884920
Combined Adjust. Factor			0.9999366525

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	52	4.7676756
Longitude	90	8	44.2466988
Ellipsoid Height (M):	45.405		
Geoid Height (M):	-27.927		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO EAST 2.00 MILES TO MISSISSIPPI COUNTY ROAD N275. TURN LEFT (NORTH) ON MISSISSIPPI CO. RD. N275 0.42 MILES TO STATION ON THE RIGHT. THE STATION IS 5.50 METERS FROM THE CENTERLINE OF CO. RD. N275, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470009 2002" SET ON TOP OF AN IRON ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	5	23.15	76.0
MK # 2				
MK # 3				

AZ Mark Station	470009A
Geodetic Azimuth	180 20 02
Grid Azimuth	179 15 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 241.0261 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470009A	6/11/2002	AHTD	MISSISSIPPI	18	100307,100654

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	171,152.1309
Easting (M)	567,465.8860
Elevation (M)*	73.458
Northing (SFT)	561,521.6161
Easting (SFT)	1,861,760.9943
Elevation (SFT)*	241.003

Convergence Angle	1	4	44.5226092
Scale Factor			0.999947635
Elevation Adjust. Factor			0.9999884722
Combined Adjust. Factor			0.9999361078

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	42.5851596
Longitude	90	8	44.4055164
Ellipsoid Height (M):	45.543		
Geoid Height (M):	-27.915		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 77 NORTH IN MANILA, GO EAST ON HIGHWAY 18 2.78 MILES TO THE STATION ON THE LEFT. THE STATION IS 5.3 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 4.3 METERS FROM THE CENTERLINE OF MISSISSIPPI COUNTY ROAD N275, 23.6 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP SET ON TOP OF AN IRON ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	204	14.35	47.1
MK # 2	POWER POLE	31	26.60	87.3
MK # 3				

AZ Mark Station	470009
Geodetic Azimuth	0 20 02
Grid Azimuth	359 15 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 240.6051 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470010	6/11/2002	AHTD	MISSISSIPPI	18	100304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	169,514.8350
Easting (M)	572,165.8290
Elevation (M)*	
Northing (SFT)	556,149.9212
Easting (SFT)	1,877,180.7240
Elevation (SFT)*	

Convergence Angle	1	6	32.7800912
Scale Factor	0.999946359		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	50	46.5578160
Longitude	90	5	38.3638524
Ellipsoid Height (M):	44.054		
Geoid Height (M):	-27.865		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO WEST 3.1 MILES ON HIGHWAY 18 TO THE STATION ON THE LEFT. THE STATION IS 18.6 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	86	23.15	76.0
MK # 2				
MK # 3				

AZ Mark Station	470010A
Geodetic Azimuth	268 02 07
Grid Azimuth	266 55 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 238.0406 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470010A	6/11/2002	AHTD	MISSISSIPPI	18	100304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	169,484.4670	
Easting (M)	571,600.2860	
Elevation (M)*	72.562	
Northing (SFT)	556,050.2888	
Easting (SFT)	1,875,325.2717	
Elevation (SFT)*	238.064	

Convergence Angle	1	6	19.6539859
Scale Factor	0.999946345		
Elevation Adjust. Factor	0.9999886128		
Combined Adjust. Factor	0.9999349584		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	50	45.9272580	
Longitude	90	6	0.9212076	
Ellipsoid Height (M):	44.695			
Geoid Height (M):	-27.867			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO WEST ON HIGHWAY 18 3.47 MILES TO THE STATION ON THE LEFT. THE STATION IS 21.5 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 0.50 METERS NORTH FROM A WITNESS POST . THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470010A 2002" SET ON TOP OF AN IRON ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	271	29.75	97.6
MK # 2				
MK # 3				

AZ Mark Station	470010
Geodetic Azimuth	88 01 54
Grid Azimuth	86 55 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 235.9162 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470011	6/11/2002	AHTD	MISSISSIPPI	18	100304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	171,202.7539
Easting (M)	577,879.8230
Elevation (M)*	
Northing (SFT)	561,687.7018
Easting (SFT)	1,895,927.3860
Elevation (SFT)*	

Convergence Angle	1	8	46.0442295
Scale Factor			0.999947520
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	37.6664292
Longitude	90	1	49.3479768
Ellipsoid Height (M):	45.092		
Geoid Height (M):	-27.877		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO EAST 0.70 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.90 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 10.8 METERS FROM THE CENTERLINE OF HIGHWAY 18, AN 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP STAMPED "470010 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END CORRUGATED METAL PIPE	90	2.00	6.6
MK # 2				
MK # 3				

AZ Mark Station	470011A
Geodetic Azimuth	53 56 57
Grid Azimuth	52 48 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 239.3959 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470011A	6/11/2002	AHTD	MISSISSIPPI	18	100304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	171,653.6319
Easting (M)	578,473.8960
Elevation (M)*	
Northing (SFT)	563,166.9573
Easting (SFT)	1,897,876.4405
Elevation (SFT)*	

Convergence Angle	1	9	0.0303513
Scale Factor			0.999947854
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	51.9068520
Longitude	90	1	25.3126740
Ellipsoid Height (M):	45.271		
Geoid Height (M):	-27.884		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 18 AND HIGHWAY 181 NORTH IN DELL, GO EAST 1.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 6.3 METERS FROM THE CENTERLINE OF A FIELD ENTRANCE, 10.1 METERS FROM THE CENTERLINE OF HIGHWAY 18, AND 1.00 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64MM CAP SET ON TOP OF A STEEL ROD 1.22M LONG DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRUGATED METAL PIPE	87	3.25	10.7
MK # 2				
MK # 3				

AZ Mark Station	470011
Geodetic Azimuth	233 57 11
Grid Azimuth	232 48 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	VILLPORT
Ref Mon # 3	MANIPORT

Comments

BASED ON NGS POINTS A 185, E 185, F 185, G 185, H 185, J 185, K 185, Y 194. ZC = 239.9906 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470012	1/3/2003	AHTD	MISSISSIPPI	297	100105

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	141,702.4640
Easting (M)	561,795.2130
Elevation (M)*	
Northing (SFT)	464,902.1673
Easting (SFT)	1,843,156.4613
Elevation (SFT)*	
Convergence Angle	1 2 20.6287407
Scale Factor	0.999935962
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 35 50.5715424
Longitude	90 12 51.6886992
Ellipsoid Height (M):	40.369
Geoid Height (M):	-27.668

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-14 AND HWY-297 EAST OF LEPANTO, GO SOUTH ON HWY-297 FOR 0.90 MILES TO THE STATION ON THE RIGHT, NORTHEAST OF A WATER TOWER. 10.5 METERS WEST OF THE CENTER OF HWY-297, 25.4 METERS NORTH OF A GRAVEL DRIVE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED " 470012 2003 " SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	10	35.40	116.1
MK # 2	NORTHEAST CORNER OF METAL BUILDING	232	18.10	59.4
MK # 3	NORTHWEST CORNER OF BRIDGE	170	40.90	134.2

AZ Mark Station	470012A
Geodetic Azimuth	271 18 34
Grid Azimuth	270 16 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016, Bloomfield CORS
Ref Mon # 2	MEM2, BUTLER
Ref Mon # 3	AHTD PAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470012A	1/3/2003	AHTD	MISSISSIPPI	N/A	100105

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	141,706.2240
Easting (M)	560,998.1700
Elevation (M)*	
Northing (SFT)	464,914.5032
Easting (SFT)	1,840,541.4961
Elevation (SFT)*	
Convergence Angle	1 2 2.2070638
Scale Factor	0.999935962
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 35 51.1613772
Longitude	90 13 23.3465520
Ellipsoid Height (M):	40.077
Geoid Height (M):	-27.671

Location Description

TO REACH FROM U.S. STATE HIGHWAY 14 AND 297 EAST OF LEPANTO GO SOUTH ON 297 FOR 0.85 MI TO A GRAVEL COUNTY ROAD W924 AND TURN RIGHT (WEST) AND GO 0.50 MI TO THE STATION ON THE RIGHT 5.20 METERS WEST OF A FIELD ROAD AND 8.70 METERS NORTH OF THE COUNTY ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "470012A 2003" ON TOP OF A 1.22 METER LONG IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	470012
Geodetic Azimuth	91 18 15
Grid Azimuth	90 16 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016, Bloomfield CORS
Ref Mon # 2	MEM2, BUTLER
Ref Mon # 3	AHTD PAR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470013	10/30/2003	AHTD	MISSISSIPPI	18	100302,100663

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	178,760.8509
Easting (M)	586,608.8110
Elevation (M)*	75.965
Northing (SFT)	586,484.5583
Easting (SFT)	1,924,565.7408
Elevation (SFT)*	249.228

Convergence Angle	1	12	12.1425566
Scale Factor			0.999953773
Elevation Adjust. Factor			0.9999880788
Combined Adjust. Factor			0.9999418523

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	37.0428024
Longitude	89	55	55.1657532
Ellipsoid Height (M):	47.962		
Geoid Height (M):	-28.021		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 0.10 MILES TO THE STATION ON THE RIGHT. 83 FEET NORTHWEST OF THE CENTER OF HWY-18, 54 FEET SOUTHWEST OF THE CENTER OF A DRIVEWAY, 65 FEET NORTHEAST OF THE CENTER OF A DRIVEWAY AND 4.0 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470013 2003" SET ON TOP OF AN IRON ROD 4 FEET LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	320	1.68	5.5
MK # 2	POWER POLE W/METER	295	18.90	62.0
MK # 3				

AZ Mark Station	470003
Geodetic Azimuth	230 31 21
Grid Azimuth	229 19 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	BLOOMFIELD C.O.R.S.
Ref Mon # 2	MEM2 C.O.R.S.
Ref Mon # 3	470011, 470003

Comments

3-Wire Levels ran to mark from 1st Order NGS marks B189 & E189 by crew S5102 & S5110.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470014	10/30/2003	AHTD	MISSISSIPPI	18	100302

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	174,639.9429
Easting (M)	582,460.0500
Elevation (M)*	74.111
Northing (SFT)	572,964.5460
Easting (SFT)	1,910,954.3474
Elevation (SFT)*	243.146
Convergence Angle	1 10 33.8925795
Scale Factor	0.999950187
Elevation Adjust. Factor	0.9999883697
Combined Adjust. Factor	0.9999385573

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 53 26.1576924
Longitude	89 58 44.0094108
Ellipsoid Height (M):	46.172
Geoid Height (M):	-27.939

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 3.85 MI. TO THE STATION ON THE LEFT. 74.0 FEET SOUTHEAST OF THE CENTER OF HWY-18, 100.0 FEET NORTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 3.0 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470014 2003" SET ON TOP OF AN IRON ROD 4 FEET IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	74	4.27	14.0
MK # 2				
MK # 3				

AZ Mark Station	470014A
Geodetic Azimuth	53 57 01
Grid Azimuth	52 46 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	BLOOMFIELD C.O.R.S.
Ref Mon # 2	MEM2 C.O.R.S.
Ref Mon # 3	470011, 470003

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470014A	10/30/2003	AHTD	MISSISSIPPI	18	100302

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	175,019.5779
Easting (M)	582,959.7320
Elevation (M)*	
Northing (SFT)	574,210.0652
Easting (SFT)	1,912,593.7207
Elevation (SFT)*	
Convergence Angle	1 10 45.6654767
Scale Factor	0.999950499
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 53 38.1397236
Longitude	89 58 23.7775584
Ellipsoid Height (M):	46.393
Geoid Height (M):	-27.947

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 151 ON THE WEST SIDE OF BLYTHEVILLE, GO WEST ON HWY-18 FOR 3.40 MI. TO THE STATION ON THE LEFT. 73.0 FEET SOUTHEAST OF THE CENTER OF HWY-18, 44 FEET SOUTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 3.8 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470014A 2003" SET ON TOP OF AN IRON ROD 4 FEET IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	120	1.98	6.5
MK # 2	16 INCH CMP	25	9.66	31.7
MK # 3				

AZ Mark Station	470014
Geodetic Azimuth	233 57 13
Grid Azimuth	232 46 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	BLOOMFIELD C.O.R.S.
Ref Mon # 2	MEM2 C.O.R.S.
Ref Mon # 3	470011, 470003

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470015	11/18/2008	AHTD	Mississippi	NA	100663, 100716, 100724

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	178,666.9239	
Easting (M)	588,615.1100	
Elevation (M)*	78.337	
Northing (SFT)	586,176.3995	
Easting (SFT)	1,931,148.0734	
Elevation (SFT)*	257.011	

Convergence Angle	1	12	58.6587925
Scale Factor	0.999953645		
Elevation Adjust. Factor	0.9999877065		
Combined Adjust. Factor	0.9999413521		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	32.6214372
Longitude	89	54	35.2270944
Ellipsoid Height (M):	50.321		
Geoid Height (M):	-28.016		

Location Description

To reach the station from the junction of Hwy-61 and Hwy-18 east in Blytheville go east on Hwy-18 for 0.50 mi. to south Elm street. Turn right on S Elm St. and go one block to Sycamore St., continue ahead to the old railroad fill and the station on the left. 52.0 feet south of the center of Sycamore St., 38.0 feet north of the center of a driveway, 25.0 feet east of the center of Elm St and 16.50 feet east of a witness post set next to a power pole. The station mark is a 2 1/2 inch cap stamped "470015 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole w/guy	203	5.18	17.0
MK # 2	USGS BM E 189	300	23.47	77.0
MK # 3	Center of a drop inlet	352	26.82	88.0

AZ Mark Station	470015A
Geodetic Azimuth	269 15 02
Grid Azimuth	268 02 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	TN42 TN45
Ref Mon # 2	ARPG
Ref Mon # 3	

Comments

Mark ran to by 3-Wire Levels by crew S5102 in November 08 from 1st order NGS marks B189 & E189.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470015A	11/18/2008	AHTD	Mississippi	NA	100663, 100716, 100724

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	178,652.4439	
Easting (M)	588,193.2160	
Elevation (M)*	77.988	
Northing (SFT)	586,128.8930	
Easting (SFT)	1,929,763.9095	
Elevation (SFT)*	255.867	

Convergence Angle	1	12	48.8604277
Scale Factor			0.999953640
Elevation Adjust. Factor			0.9999877612
Combined Adjust. Factor			0.9999414018

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	55	32.4419664
Longitude	89	54	52.0656912
Ellipsoid Height (M):	49.968		
Geoid Height (M):	-28.016		

Location Description

To reach the station from the junction of Hwy-61 and Hwy-18 east in Blytheville go east on Hwy-18 for 0.25 mile to 10th St., turn right and south on 10th St. and go one block to Sycamore St. and the station 44.o feet south of the center of Sycamore St. near the entrance to the Blytheville City Works. 23.0 feet west of the center of the public works driveway and 3.60 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "470015A 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fire hydrant	245	7.77	25.5
MK # 2	Gate post and fence corner	97	10.66	35.0
MK # 3	Sewer manhole	25	19.51	64.0

AZ Mark Station	470015
Geodetic Azimuth	89 14 52
Grid Azimuth	88 02 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	TN42 TN45
Ref Mon # 2	ARPG
Ref Mon # 3	

Comments

Mark ran to by 3-Wire Levels by crew S5102 in November 08 from 1st order NGS marks B189 & E189.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470016	2/2/2010	AHTD	MISSISSIPPI	148	100723,100716,100998

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	171,858.5849
Easting (M)	596,065.0780
Elevation (M)*	76.773
Northing (SFT)	563,839.3740
Easting (SFT)	1,955,590.1767
Elevation (SFT)*	251.878

Convergence Angle	1	15	48.0686768
Scale Factor			0.999947727
Elevation Adjust. Factor			0.9999879520
Combined Adjust. Factor			0.9999356797

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	46.5354360
Longitude	89	49	44.0943600
Ellipsoid Height (M):	48.847		
Geoid Height (M):	-27.851		

Location Description

THE STATION, SOUTH OF BLYTHEVILLE, IS LOCATED SOUTH OF THE JUNCTION OF STATE HIGHWAY 151 & 148, 37.3 FEET SOUTH OF THE C/L OF STATE HIGHWAY 148, 36.3 FEET WEST OF C/L OF COUNTY ROAD N839, 6.8 FEET NORTHWEST OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470016 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH GUY	142	1.95	6.4
MK # 2	SOUTH END CULVERT	302	9.82	32.2
MK # 3				

AZ Mark Station	470016A
Geodetic Azimuth	273 20 55
Grid Azimuth	272 05 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	EDM2
Ref Mon # 3	TN42

Comments

THREE WIRE LEVELS RAN BY CREW S5112 OF MARCH 3 2010 BETWEEN T 213 AND U 213 IN JOB 100BR3.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470016A	2/2/2010	AHTD	MISSISSIPPI	148	100723,100716,100998

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	171,875.7099	
Easting (M)	595,594.7420	
Elevation (M)*	77.243	
Northing (SFT)	563,895.5582	
Easting (SFT)	1,954,047.0827	
Elevation (SFT)*	253.421	

Convergence Angle	1	15	37.1706797
Scale Factor	0.999947748		
Elevation Adjust. Factor	0.9999878782		
Combined Adjust. Factor	0.9999356269		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	47.4270228
Longitude	89	50	2.8226868
Ellipsoid Height (M):	49.315		
Geoid Height (M):	-27.853		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 151 & 148, SOUTH OF BLYTHEVILLE, GO WEST ON 148 0.3 MILES TO THE MARK ON THE RIGHT, 33.7 FEET NORTH OF C/L OF 148, 1.5 FEET SOUTH OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "470016A 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH METER	90	45.78	150.2
MK # 2				
MK # 3				

AZ Mark Station	470016
Geodetic Azimuth	93 20 44
Grid Azimuth	92 05 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	EDM2
Ref Mon # 3	TN42

Comments

THREE WIRE LEVEL RAN BY CREW S5112 OF MARCH 3 2010 BETWEEN T 213 AND U 213 IN JOB 100BR3.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470017	2/4/2010	AHTD	MISSISSIPPI	312	100BR4, 100716, 100724

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	177,459.3439	
Easting (M)	591,611.0890	
Elevation (M)*	83.074	
Northing (SFT)	582,214.5308	
Easting (SFT)	1,940,977.3812	
Elevation (SFT)*	272.551	

Convergence Angle	1	14	7.5840198
Scale Factor	0.999952476		
Elevation Adjust. Factor	0.9999869632		
Combined Adjust. Factor	0.9999394398		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	54	51.3691524
Longitude	89	52	36.7783392
Ellipsoid Height (M):	55.085		
Geoid Height (M):	-27.985		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 239 AND STATE HIGHWAY 312, WEST OF BLYTHEVILLE, GO EAST ON 312 FOR 0.8 MILES TO THE MARK ON THE RIGHT AT THE SOUTHEAST CORNER OF THE 312 OVERPASS OVER I 55, SOUTH 22 FEET OF THE CENTERLINE OF 312 AND SOUTH 4.6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1 1/2 INCH CAP STAMPED "470017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER OF BRIDGE END	311	5.61	18.4
MK # 2	12 INCH CMP	100	5.49	18.0
MK # 3				

AZ Mark Station	470017A
Geodetic Azimuth	88 53 36
Grid Azimuth	87 39 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	TN42
Ref Mon # 3	EDM2

Comments

THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470017A	2/4/2010	AHTD	MISSISSIPPI	312	100BR4, 100716, 100724

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	177,486.5229
Easting (M)	592,275.6260
Elevation (M)*	75.606
Northing (SFT)	582,303.7005
Easting (SFT)	1,943,157.6163
Elevation (SFT)*	248.049
Convergence Angle	1 14 23.0177744
Scale Factor	0.999952487
Elevation Adjust. Factor	0.9999881352
Combined Adjust. Factor	0.9999406227

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 54 51.7851108
Longitude	89 52 10.2552636
Ellipsoid Height (M):	47.619
Geoid Height (M):	-27.983

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 239 AND STATE HIGHWAY 312, WEST OF BLYTHEVILLE, GO EAST ON 312 FOR 1.2 MILES TO THE MARK ON THE LEFT, WEST 10.6 FEET OF THE CENTERLINE OF A DIRT PULL OFF, SOUTH 44.5 FEET OF THE CENTERLINE OF 312 AND EAST 16.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1 1/2 INCH CAP STAMPED "470017A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF CHAINLINK FENCE	0	6.77	22.2
MK # 2	SOUTHEAST CORNER OF CHAINLINK FENCE	47	9.78	32.1
MK # 3	TELEPHONE RISER	105	14.69	48.2

AZ Mark Station	470017
Geodetic Azimuth	268 53 52
Grid Azimuth	267 39 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	TN42
Ref Mon # 3	EDM2

Comments

THREE WIRE LEVELS RAN BY CREW S5112 ON 3/3/2010 FROM E 189 THROUGH A 189.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470018	10/21/2010	AHTD	Mississippi	CR-N757	10786_6

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	186,745.2439	
Easting (M)	591,559.7400	
Elevation (M)*	77.268	
Northing (SFT)	612,680.0210	
Easting (SFT)	1,940,808.9137	
Elevation (SFT)*	253.503	

Convergence Angle	1	14	11.0429726
Scale Factor	0.999961936		
Elevation Adjust. Factor	0.9999878743		
Combined Adjust. Factor	0.9999498107		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	59	52.6257564
Longitude	89	52	30.8340912
Ellipsoid Height (M):	49.099		
Geoid Height (M):	-28.169		

Location Description

To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) to the station on the right just past the southbound weigh station; 4 feet east of a guardrail, 4 feet east of the witness post, 22 feet east of the centerline of service road CR-N757, 35 feet west of the centerline of the southbound weigh station entrance ramp, 102 feet west of the centerline of southbound I-55, the station mark is a 2 1/2 inch aluminum cap stamped "470018 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Light Pole	146	7.62	25.0
MK # 2	End of Guardrail	4	11.89	39.0
MK # 3				

AZ Mark Station	470018A
Geodetic Azimuth	179 04 07
Grid Azimuth	177 49 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MOKE
Ref Mon # 3	TN$@

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470018A	10/21/2010	AHTD	Missiissippi	CR-N757	10786_6,101009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	186,115.6919	
Easting (M)	591,583.5690	
Elevation (M)*	77.295	
Northing (SFT)	610,614.5658	
Easting (SFT)	1,940,887.0926	
Elevation (SFT)*	253.592	

Convergence Angle	1	14	11.2808539
Scale Factor	0.999961227		
Elevation Adjust. Factor	0.9999878700		
Combined Adjust. Factor	0.9999490975		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	59	32.1875808
Longitude	89	52	30.4252896
Ellipsoid Height (M):	49.137		
Geoid Height (M):	-28.158		

Location Description

To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.4 miles to the station on the right; 3 feet soouth of the southeast end of the headwall of a cross culvert, 3 feet south of the witness post, 20 feet east of the centerline of the servie road (CR-N757), 75 feet west of the centerline of I-55 southbound, the station mark is a 2 1/2 inch aluminum cap stamped "470018A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	End of guardrail	92	7.62	25.0
MK # 2	East end of 24 inch concrete culvert	6	3.96	13.0
MK # 3	Northeast end of headwall over Pemiscot	182	66.75	219.0

AZ Mark Station	470018
Geodetic Azimuth	359 04 08
Grid Azimuth	357 49 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MOKE
Ref Mon # 3	TN42

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470019	10/21/2010	AHTD	Mississippi	CR-E2	10786_6

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	186,847.2940
Easting (M)	588,616.0440
Elevation (M)*	76.968
Northing (SFT)	613,014.8304
Easting (SFT)	1,931,151.1377
Elevation (SFT)*	252.519
Convergence Angle	1 13 2.7149748
Scale Factor	0.999962124
Elevation Adjust. Factor	0.9999879214
Combined Adjust. Factor	0.9999500458

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 59 57.9811416
Longitude	89 54 28.2565008
Ellipsoid Height (M):	48.791
Geoid Height (M):	-28.177

Location Description

To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.9 miles then turn left (west) on state line gravel road (CR-E2) and go 0.5 miles crossing US-61 and the railroad tracks to the station on the left. The station is in the southwest quadrant of the railroad and CR-E2 intersection; 1.5 feet south of the witness post, 26 feet south of the centerline of CR-E2, 53 feet west of the east rail, 63 feet southwest of the center of the railroad crossing, the station mark is a 2 1/2 inch aluminum cap stamped "470019 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole with guy	3	20.12	66.0
MK # 2	Railroad mile marker	170	12.80	42.0
MK # 3				

AZ Mark Station	470019A
Geodetic Azimuth	201 27 54
Grid Azimuth	200 14 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MOKE
Ref Mon # 3	TN42

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470019A	10/21/2010	AHTD	Mississippi	CR-N695	10786_6,101009

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	186,365.7999
Easting (M)	588,438.4350
Elevation (M)*	
Northing (SFT)	611,435.1285
Easting (SFT)	1,930,568.4322
Elevation (SFT)*	
Convergence Angle	1 12 58.3518088
Scale Factor	0.999961583
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	59	42.4846428
Longitude	89	54	35.7546492
Ellipsoid Height (M):	49.275		
Geoid Height (M):	-28.169		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach the station from the junction of I-55 and SR-150 (exit 71) north of Blytheville, go north on the service road on the west side of I-55 (CR-N757) 0.9 miles then turn left (west) on state line gravel road (CR-E2) and go 0.6 miles crossing US-61 and the railroad tracks then turn left (south) on gravel road (CR-N695) for 0.3 miles to the station on the left. The station is in the southeast quadrant of the drainage ditch junction; 1.5 feet south of the witness post, 36 feet east of the centerline of CR-695, 15 feet south of the centerline of the east-west drainage ditch, 13 feet east of the north-south drainage ditch. The station mark is a 2 1/2 inch aluminum cap stamped "470019A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.2 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	east end of 36 inch RCP culvert	305	8.23	27.0
MK # 2	north end of 18 inch CMP culvert	275	3.96	13.0
MK # 3				

AZ Mark Station	470019
Geodetic Azimuth	21 27 50
Grid Azimuth	20 14 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MOKE
Ref Mon # 3	TN42

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470020	3/4/2013	AHTD	MISSISSIPPI	ackson rd	100760

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	153,595.8151	
Easting (M)	560,836.2252	
Elevation (M)*	69.773	
Northing (SFT)	503,922.2700	
Easting (SFT)	1,840,010.1822	
Elevation (SFT)*	228.913	

Convergence Angle	1	2	3.4253287
Scale Factor			0.999938138
Elevation Adjust. Factor			0.9999890505
Combined Adjust. Factor			0.9999271891

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID96		
Latitude	35	42	16.9910568
Longitude	90	13	21.2529504
Ellipsoid Height (M):	42.048		
Geoid Height (M):	-27.727		

Location Description

To reach from the intersection of Hwy. 77 and Hwy. 140 in Etowah. Go East on Hwy. 140 for 0.5 miles to Jackson rd. Then go North on Jackson rd. for 0.3 miles to station on the left. The station is 3 ft. East of the witness post, and 13 ft. West of the centerline of Jackson rd. The station mark is a 2 1/2 in. cap stamped "470020 2013" set on top of 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East of power pole	275	1.52	5.0
MK # 2	North of power pole	182	51.82	170.0
MK # 3				

AZ Mark Station	470020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470020A	3/4/2013	AHTD	MISSISSIPPI	Hwy. 140	100760

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	152,985.5797
Easting (M)	560,691.3557
Elevation (M)*	69.958
Northing (SFT)	501,920.1894
Easting (SFT)	1,839,534.8895
Elevation (SFT)*	229.519

Convergence Angle	1	1	59.8175211
Scale Factor			0.999937942
Elevation Adjust. Factor			0.9999890215
Combined Adjust. Factor			0.9999269642

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEIOD96			
Latitude	35	41	57.2781480	
Longitude	90	13	27.4530072	
Ellipsoid Height (M):			42.233	
Geoid Height (M):			-27.724	

Location Description

To reach from the intersection of Hwy. 77 and Hwy. 140 in Etowah. Go East on Hwy. 140 for 0.3 miles to station on the right. The station is 4 ft. North of the witness post, and 41 ft. South of the centerline of Hwy. 140. The station mark is a 2 1/2 in. cap stamped "470020A 2013" set on top of 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northeast of telephone box	220	2.74	9.0
MK # 2	Northeast of 48 in. Sicamore tree	255	35.66	117.0
MK # 3				

AZ Mark Station	470020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470021	3/4/2013	AHTD	MISSISSIPPI	77	100760

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	146,654.1350	
Easting (M)	558,557.3328	
Elevation (M)*	68.908	
Northing (SFT)	481,147.7746	
Easting (SFT)	1,832,533.5160	
Elevation (SFT)*	226.076	

Convergence Angle	1	1	7.8219000
Scale Factor			0.999936451
Elevation Adjust. Factor			0.9999891862
Combined Adjust. Factor			0.9999256379

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	38	33.1068552
Longitude	90	14	56.8080492
Ellipsoid Height (M):	41.201		
Geoid Height (M):	-27.707		

Location Description

To reach from the intersection of Hwy. 198 and Hwy. 77 in Bondsville. Go South on Hwy. 77 for 0.3 miles to station on the right. The station is 2 ft. East of the witness post, and 38.5 ft. West of the centerline of Hwy. 77. The station mark is a 2 1/2 in. cap stamped "470021 2013" set on top of 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST OF NORTHEAST BUILDING CORNER	271	19.66	64.5
MK # 2	SOUTHEAST OF SOUTHEAST BUILDING CORNER	317	27.74	91.0
MK # 3				

AZ Mark Station	470021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470021A	3/4/2013	AHTD	MISSISSIPPI	Co. rd. 78(	100760

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	146,486.9754	
Easting (M)	559,046.8477	
Elevation (M)*	70.006	
Northing (SFT)	480,599.3518	
Easting (SFT)	1,834,139.5328	
Elevation (SFT)*	229.677	

Convergence Angle	1	1	19.0742262
Scale Factor			0.999936423
Elevation Adjust. Factor			0.9999890139
Combined Adjust. Factor			0.9999254376

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD96			
Latitude	35	38	27.4007832	
Longitude	90	14	37.4708040	
Ellipsoid Height (M):			42.300	
Geoid Height (M):			-27.704	

Location Description

To reach from the intersection of Hwy. 198 and Hwy. 77 in Bondsville. Go South on Hwy. 77 for 0.4 miles to Co. rd. 780. Then go East (left) down Co. rd. 780 for 0.3 miles to station on the right. The station is 3 ft. North of the witness post, and 30 ft. South of the centerline of Co. rd. 780. The station mark is a 2 1/2 in. cap stamped "470021A 2013" set on top of 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southeast of Power pole	318	19.51	64.0
MK # 2	Northeast of well head	234	16.46	54.0
MK # 3				

AZ Mark Station	470021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST BY 3RD ORDER DIGITAL LEVELS FROM AHTD BM 470003 WHICH WAS CONVERTED FROM NAVD29 (229.82) TO NAVD88 (229.974) BY CREW S5102 DURING JOB 100760 IN FEB 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470022	2/19/2019	AHTD	Mississippi	61	100980,101220

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83(2011)

Northing (M)	146,254.4536	0.0010
Easting (M)	582,617.7859	0.0010
Elevation (M)*	71.958	0.0026
Northing (SFT)	479,836.4865	
Easting (SFT)	1,911,471.8526	
Elevation (SFT)*	236.083	

Convergence Angle	1	10	24.0648095
Scale Factor			0.999936323
Elevation Adjust. Factor			0.9999887075
Combined Adjust. Factor			0.9999250312

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	38	5.2058400
Longitude	89	59	0.8980080
Ellipsoid Height:			44.323
Grid Northing (Meters)			146,254.4656
Grid Easting (Meters)			582,617.7990

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	38	5.2054584	
Longitude	89	59	0.8985408	
Ellipsoid Height (M):			44.323	0.0000
Geoid Height (M):			-27.636	

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 4.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 48 FET SOUTHEAST OF THE CENTERLINE OF U. S. HIGHWAY 61 SOUTH, 38 FEET NORTHEAST OF THE NEAR RAIL OF THE RAILROAD AND 2 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470022, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH

WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SERVICE POLE	215	36.58	120.0
MK # 2	RR SIGNAL POLE	71	37.80	124.0
MK # 3				

AZ Mark Station	470022A
Geodetic Azimuth	33 56 19.9
Grid Azimuth	32 45 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM

Comments

Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470022A	2/19/2019	AHTD	Mississippi	61	100980,101220

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83(2011)

Northing (M)	146,616.1041	0.0010
Easting (M)	582,850.5388	0.0010
Elevation (M)*	72.822	0.0026
Northing (SFT)	481,023.0015	
Easting (SFT)	1,912,235.4760	
Elevation (SFT)*	238.917	

Convergence Angle	1	10	29.6185341
Scale Factor			0.999936374
Elevation Adjust. Factor			0.9999885720
Combined Adjust. Factor			0.9999249467

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	38	16.7834760
Longitude	89	58	51.3539760
Ellipsoid Height:			45.177
Grid Northing (Meters)			146,616.1117
Grid Easting (Meters)			582,850.5494

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	38	16.7832348	
Longitude	89	58	51.3544044	
Ellipsoid Height (M):			45.178	0.0010
Geoid Height (M):			-27.637	

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 4.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 48 FEET SOUTHEAST OF THE CENTERLINE OF U. S. HIGHWAY 61 SOUTH, 46 FEET NORTHEAST OF THE NEAR RAIL OF THE RAILROAD AND 2 FEET NORTHWEST OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470022A, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	245	7.62	25.0
MK # 2				
MK # 3				

AZ Mark Station	470022
Geodetic Azimuth	213 56 19.9
Grid Azimuth	212 45 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM

Comments

Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470023	2/19/2019	AHTD	Mississippi	198	100980

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,470.2830	0.0010
Easting (M)	586,522.0623	0.0010
Elevation (M)*	74.681	0.0030
Northing (SFT)	487,106.2535	
Easting (SFT)	1,924,281.1327	
Elevation (SFT)*	245.015	

Convergence Angle	1	11	55.4192791
Scale Factor	0.999936674		
Elevation Adjust. Factor	0.9999882803		
Combined Adjust. Factor	0.9999249551		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	39	14.4678960
Longitude	89	56	23.9048880
Ellipsoid Height (M):	47.059		0.0030
Geoid Height (M):	-27.628		

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 3.9 MILES, THEN TRAVEL NORTHEAST ON STATE HIGHWAY 198 FOR 2.6 MILES TO THE STATION ON THE LEFT. THE STATION IS 49 FEET NORTH OF THE CENTERLINE OF STATE HIGHWAY 198, 49 FEET WEST OF THE CENTER OF THE ENTRANCE TO BUNGE INC. AND 6 FEET SOUTH OF A WITNESS POST. THE MARK IS A 2" ALUMINIUM CAP STAMPED 470023, 2019. SET ON THE TOP OF A 4 FOOT LONG IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST GATE POST	68	7.92	26.0
MK # 2	WEST END 30" CPM	263	6.10	20.0
MK # 3				

AZ Mark Station	470023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AROC
Ref Mon # 2	TN45
Ref Mon # 3	ZME1

Comments

Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470023A	6/22/1905	COE	Mississippi	198	100980

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,458.9634	0.0010
Easting (M)	587,054.8827	0.0010
Elevation (M)*	81.671	0.0030
Northing (SFT)	487,069.1158	
Easting (SFT)	1,926,029.2277	
Elevation (SFT)*	267.949	

Convergence Angle	1	12	7.7376321
Scale Factor	0.999936670		
Elevation Adjust. Factor	0.9999871833		
Combined Adjust. Factor	0.9999238541		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	39	13.7384640
Longitude	89	56	2.7356640
Ellipsoid Height (M):	54.049		0.0000
Geoid Height (M):	-27.622		

Location Description

TO REACH FROM: THE JUNCTION OF STATE HIGHWAY 140 WEST AND U. S. HIGHWAY 61 SOUTH, LOCATED IN OSCEOLA, TRAVEL SOUTH ON U. S. HIGHWAY 61 FOR 3.9 MILES, THEN TRAVEL NORTHEAST ON STATE HIGHWAY 198 FOR 3.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 107 FEET SOUTHEAST OF THE CENTERLINE OF STATE HIGHWAY 198, 18 FEET NORTHWEST OF THE CENTER OF THE LEVEE AND A METAL GATE AND 9 FEET NORTH OF A WITNESS POST. THE MARK IS A 3" C.O.E. ALUMINIUM CAP STAMPED SP-12-2000 SET ON TOP OF A IRON ROD DRIVEN FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONC STAND PIPE	310	3.05	10.0
MK # 2	WEST GATE POST	175	3.35	11.0
MK # 3				

AZ Mark Station	470023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Levels ran from NGS BM N214 by crew S5101 during job 100980 in March 2019.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470024	8/5/2019	ARDOT	MISSISSIPPI	CR 567	100098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	165,682.0646	0.0020
Easting (M)	582,418.4341	0.0020
Elevation (M)*		

Northing (SFT)	543,575.2403	
Easting (SFT)	1,910,817.8125	
Elevation (SFT)*		

Convergence Angle	1	10	28.6663428
Scale Factor			0.999943664
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	48	35.5906728	
Longitude	89	58	52.9907556	
Ellipsoid Height (M):			43.587	0.0150
Geoid Height (M):			-27.860	0.0150

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 55 AND STATE HIGHWAY 148, SOUTH OF BLYTHEVILLE, GO WEST ON HIGHWAY 148 0.55 MILES TO COUNTY ROAD 567 AND TURN LEFT (SOUTH) AND GO 0.25 MILES TO THE MARK ON THE RIGHT, WEST 43' OF THE C/L OF THE COUNTY ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470024" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	179	31.10	102.0
MK # 2	POWER POLE W/TRANSFORMER	3	54.25	178.0
MK # 3				

AZ Mark Station	470024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MOKE, TN45

Comments

GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARJB & ARPG AND ON NGS 1ST ORDER BM's J 189 & Q 213 IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470024A	8/5/2019	ARDOT	MISSISSIPPI	148	100098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	166,115.1097	0.0030
Easting (M)	582,404.7871	0.0020
Elevation (M)*		
Northing (SFT)	544,995.9891	
Easting (SFT)	1,910,773.0390	
Elevation (SFT)*		

Convergence Angle	1	10	28.5558443
Scale Factor	0.999943934		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	48	49.6479240	
Longitude	89	58	53.1806484	
Ellipsoid Height (M):	43.525			0.0140
Geoid Height (M):	-27.867			0.0140

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 55 AND STATE HIGHWAY 148, SOUTH OF BLYTHEVILLE, GO WEST ON HIGHWAY 148 0.55 TO THE MARK ON THE LEFT, SOUTH 88' OF THE C/L OF THE HIGHWAY AND WEST 48' OF THE C/L OF COUNTY ROAD 567. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470024A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	13	14.02	46.0
MK # 2	POWER POLE W/2 GUYS	163	10.05	33.0
MK # 3				

AZ Mark Station	470024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MOKE, TN45

Comments

GPS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON ARDOT CORS ARJB & ARPG AND ON NGS 1ST ORDER BM's J 189 & Q 213 IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470025	12/4/2019	ARDOT	MISSISSIPPI	61	101017, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	127,963.0454	0.0020
Easting (M)	565,384.8391	0.0010
Elevation (M)*		

Northing (SFT)	419,825.4248	
Easting (SFT)	1,854,933.4263	
Elevation (SFT)*		

Convergence Angle	1	3	37.7217831
Scale Factor	0.999937812		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	35	28	22.6820928
Longitude	90	10	39.2034648
Ellipsoid Height (M):	41.196	0.0100	
Geoid Height (M):	-27.621	0.0100	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 207 AND STATE HIGHWAY 61, NORTH OF MARION, GO NORTH ON HIGHWAY 61 0.6 MILES TO THE MARK ON THE RIGHT, EAST 17.2' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470025" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	470025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARWY

Comments

STATIC GPS DERIVED ELEV. 225.7758

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470025A	12/4/2019	ARDOT	MISSISSIPPI	61	101017, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	128,385.0536	0.0020
Easting (M)	565,652.5103	0.0010
Elevation (M)*	70.053	

Northing (SFT)	421,209.9634	
Easting (SFT)	1,855,811.6109	
Elevation (SFT)*	229.832	

Convergence Angle	1	3	44.0798413
Scale Factor			0.999937687
Elevation Adjust. Factor			0.9999890065
Combined Adjust. Factor			0.9999266942

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	35	28	36.2127144
Longitude	90	10	28.2770724
Ellipsoid Height (M):	42.426		0.0100
Geoid Height (M):	-27.625		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 207 AND STATE HIGHWAY 61, NORTH OF MARION, GO NORTH ON HIGHWAY 61 0.9 MILES TO THE MARK ON THE RIGHT, EAST 17.0' OF THE C/L OF THE HIGHWAYAND 154.2' NORTH OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 470025A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	470025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #470025, WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470026	5/3/2022	ARDOT	Mississippi	55	A00031

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	135,748.2204	0.0010
Easting (M)	566,643.3670	0.0010
Elevation (M)*		

Northing (SFT)	445,367.2864	
Easting (SFT)	1,859,062.4466	
Elevation (SFT)*		

Convergence Angle	1	4	10.1208568
Scale Factor			0.999936194
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	32	34.5015348
Longitude	90	9	43.5253032
Ellipsoid Height (M):	44.474		0.0050
Geoid Height (M):	-27.697		0.0050

Location Description

To reach from the Junction of I55 and hwy 181 go east for 0.2 miles the the head north on s county rd 251 for 0.5 miles to the station on the right. The station is 15.1 ft. east of the centeline of S co. rd. 251. 32.7 ft. SE of the center of a gravel field entrance, and 4.3 ft. W of a metal fence T-post. the station mark is a 2 1/2 in. cap stamped "470026 2022" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fence T-Post	281	1.31	4.3
MK # 2				
MK # 3				

AZ Mark Station	470026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWM, ARWY

Comments

STATIC DERIVED ORTHOMETRIC HT. BASED ON CONSTRAINTS ON CORS SITES ARJB, ARPG, ARWM & ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470026A	5/3/2022	ARDOT	Mississippi	55	A00031

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	135,373.3993	0.0010
Easting (M)	566,445.4716	0.0010
Elevation (M)*		

Northing (SFT)	444,137.5609	
Easting (SFT)	1,858,413.1847	
Elevation (SFT)*		

Convergence Angle	1	4	5.3883249
Scale Factor			0.999936238
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	32	22.4608776	
Longitude	90	9	51.6582108	
Ellipsoid Height (M):			43.214	0.0050
Geoid Height (M):			-27.695	0.0050

Location Description

To reach from the Junction of I55 and hwy 181 go east for 0.2 miles the the head north on s county rd 251 for 0.2 miles to the station on the left. The station is 59.0 ft. nw of the centerline of S county Rd 251, 59.8 ft. W of the cenerline of the I-55 Southbound off ramp, and 3.6 ft. SE of a metal fene corner. The station mark is a 2 1/2 in. cap stamped "470026A 2022" set ontop of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Metal Fence Cor	166	1.10	3.6
MK # 2				
MK # 3				

AZ Mark Station	470026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWM, ARWY

Comments

STATIC DERIVED ORTHOMETRIC HT. BASED ON CONSTRAINTS ON CORS SITES ARJB, ARPG, ARWM & ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470027	5/16/2022	ARDOT	Mississippi	rth Main	C47017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	160,355.8134	0.0020
Easting (M)	587,351.1486	0.0010
Elevation (M)*	74.724	

Northing (SFT)	526,100.6978	
Easting (SFT)	1,927,001.2267	
Elevation (SFT)*	245.156	

Convergence Angle	1	12	20.3812001
Scale Factor	0.999940675		
Elevation Adjust. Factor	0.9999882736		
Combined Adjust. Factor	0.9999289493		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	45	39.4802496
Longitude	89	55	41.0075544
Ellipsoid Height (M):	46.895	0.0070	
Geoid Height (M):	-27.761	0.0070	

Location Description

To reach from the Junction of Hwy 61 and Hwy 158/Calhoun St. in Luxora head east on Calhoun St. for 0.45 miles to North Main St. Head north/left on North Main St. for 0.3 miles to the station on the left. The station is 17.3ft. west of the centerline of North Main St, and 73.5ft. South of the center of a gravel driveway. The station mark is a 2 1/2 in. cap stamped "470027 2022" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PowerPole	300	21.90	71.9
MK # 2	Powerpole	6	25.50	83.7
MK # 3				

AZ Mark Station	470027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY, TN44

Comments

ELEVATION BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs F 214 & U 355 BY S5103 IN MAY 2022 FOR JOB #C47017
**********USED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARJB & ARPG AS CONSTRAINTS FOR STATIC DERIVED ELEVATION.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470027A	5/16/2022	ARDOT	Mississippi	rth Main	C47017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	159,908.3521	0.0020
Easting (M)	587,383.9148	0.0010
Elevation (M)*	74.745	

Northing (SFT)	524,632.6518	
Easting (SFT)	1,927,108.7271	
Elevation (SFT)*	245.227	

Convergence Angle	1	12	20.9219404
Scale Factor	0.999940461		
Elevation Adjust. Factor	0.9999882702		
Combined Adjust. Factor	0.9999287319		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	45	24.9420240
Longitude	89	55	40.0782864
Ellipsoid Height (M):	46.922	0.0070	
Geoid Height (M):	-27.755	0.0070	

Location Description

To reach from the Junction of Hwy 61 and Hwy 158/Calhoun St. in Luxora head east on Calhoun St. for 0.45 miles to North Main St. Head north/left on North Main St. for 0.05 miles to the station on the right. The station is 83.2ft. East of the centerline of Main St, 66.8ft. NW of a flag pole, and 111.0ft west of a light pole. The station mark is a 2 1/2 in. cap stamped "470027A 2022" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Flag Pole	338	20.30	66.6
MK # 2	Light Pole	270	33.80	110.9
MK # 3				

AZ Mark Station	470027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY, TN44

Comments

ELEVATION BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 1ST ORDER BMs F 214 & U 355 BY S5103 IN MAY 2022 FOR JOB #C47017
**********USED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARJB & ARPG AS CONSTRAINTS FOR STATIC DERIVED ELEVATION.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470028	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	147,684.8605	0.0010
Easting (M)	573,401.6887	0.0010
Elevation (M)*		

Northing (SFT)	484,529.4132	
Easting (SFT)	1,881,235.3737	
Elevation (SFT)*		

Convergence Angle	1	6	51.5892313
Scale Factor	0.999936578		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	38	57.5803824
Longitude	90	5	6.0401400
Ellipsoid Height (M):	42.501	0.0020	
Geoid Height (M):	-27.714	0.0020	

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 3.85 MILES TO THE STATION ON THE RIGHT. THE STATION IS 88.0FT W OF THE I-55 EP, 53.8FT E OF A WEB WIRE FENCE, AND 53.5FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470028 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	127	16.30	53.5
MK # 2				
MK # 3				

AZ Mark Station	470028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470028A	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	147,517.5124	0.0010
Easting (M)	573,013.0349	0.0010
Elevation (M)*		
Northing (SFT)	483,980.3719	
Easting (SFT)	1,879,960.2653	
Elevation (SFT)*		

Convergence Angle	1	6	42.5250000
Scale Factor	0.999936550		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	38	52.3962132
Longitude	90	5	21.6171204
Ellipsoid Height (M):	41.889		0.0020
Geoid Height (M):	-27.716		0.0020

Location Description

TO REACH FROM THE JCT. OF HWY 181 AND I-55 NEAR KEISER HEAD NORTH/WEST ON HWY 181 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 24.8FT EAST OF THE CENTER LINE OF HWY 181, AND 36.0FT E OF THE CENTER OF WEST COUNTY ROAD 828. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470028A 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	36	25.10	82.3
MK # 2	POWERPOLE	54	19.20	63.0
MK # 3				

AZ Mark Station	470028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470029	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	149,071.7702	0.0010
Easting (M)	574,187.6673	0.0010
Elevation (M)*		
Northing (SFT)	489,079.6327	
Easting (SFT)	1,883,814.0385	
Elevation (SFT)*		

Convergence Angle	1	7	10.3948352
Scale Factor	0.999936845		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	39	42.0775956
Longitude	90	4	33.7225044
Ellipsoid Height (M):	42.719	0.0020	
Geoid Height (M):	-27.716	0.0020	

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 2.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.0FT W OF THE I-55 EP, 57.3FT E OF A WEB WIRE FENCE, AND 57FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470029 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	128	17.40	57.1
MK # 2				
MK # 3				

AZ Mark Station	470029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470029A	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,717.9431	0.0010
Easting (M)	573,986.3112	0.0010
Elevation (M)*		
Northing (SFT)	487,918.7850	
Easting (SFT)	1,883,153.4227	
Elevation (SFT)*		

Convergence Angle	1	7	5.5772342
Scale Factor	0.999936773		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	39	30.7262772	
Longitude	90	4	42.0016044	
Ellipsoid Height (M):	42.227			0.0020
Geoid Height (M):	-27.716			0.0020

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 3.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 17.0FT W OF THE I-55 EP, AND 59.6FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470029A 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	121	18.10	59.4
MK # 2				
MK # 3				

AZ Mark Station	470029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470030	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	150,503.2753	0.0010
Easting (M)	574,996.6986	0.0010
Elevation (M)*		
Northing (SFT)	493,776.1624	
Easting (SFT)	1,886,468.3353	
Elevation (SFT)*		

Convergence Angle	1	7	29.7598277
Scale Factor	0.999937170		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	40	28.0043760
Longitude	90	4	0.4435536
Ellipsoid Height (M):	43.691	0.0020	
Geoid Height (M):	-27.720	0.0020	

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 1.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15.6FT W OF THE I-55 EP, 62.0FT E OF A WEB WIRE FENCE, AND 62.0FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470030 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	117	18.90	62.0
MK # 2				
MK # 3				

AZ Mark Station	470030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470030A	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	150,154.1361	0.0010
Easting (M)	574,796.1137	0.0010
Elevation (M)*		
Northing (SFT)	492,630.6949	
Easting (SFT)	1,885,810.2497	
Elevation (SFT)*		

Convergence Angle	1	7	24.9606696
Scale Factor	0.999937086		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	40	16.8053124
Longitude	90	4	8.6909592
Ellipsoid Height (M):	43.177	0.0020	
Geoid Height (M):	-27.719	0.0020	

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, HEAD SOUTH ON I-55 FOR 2.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS 25.0FT W OF THE I-55 EP, AND 53.2FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470030A 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	110	16.20	53.1
MK # 2				
MK # 3				

AZ Mark Station	470030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470031	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	152,065.9089	0.0010
Easting (M)	575,827.0080	0.0010
Elevation (M)*		

Northing (SFT)	498,902.9028	
Easting (SFT)	1,889,192.4421	
Elevation (SFT)*		

Convergence Angle	1	7	49.6832115
Scale Factor			0.999937581
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	41	18.1689180	
Longitude	90	3	26.2050012	
Ellipsoid Height (M):			44.300	0.0020
Geoid Height (M):			-27.726	0.0020

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, TAKE THE I-55 ON RAMP/SANDY BAYOU ROAD. HEAD SOUTH ON THE ROAD FOR 0.2 MILES TO THE SPLIT OF THE ON RAMP AND SANDY BAYOU ROAD. KEEP RIGHT AT THE SPLIT TO STAY ON SANDY BAYOU ROAD. HEAD SOUTH ON SANDY BAYOU ROAD FOR 0.45 MILES TO THE STATION ON THE LEFT. THE STATION IS 15.9FT E OF THE CENTER LINE OF SANDY BAYOU ROAD, 3.7FT W OF A WEB WIRE FENCE, AND 3.7FT W OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470031 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	285	1.10	3.6
MK # 2				
MK # 3				

AZ Mark Station	470031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470031A	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	151,693.1827	0.0010
Easting (M)	575,631.0619	0.0010
Elevation (M)*		
Northing (SFT)	497,680.0502	
Easting (SFT)	1,888,549.5756	
Elevation (SFT)*		

Convergence Angle	1	7	44.9790312
Scale Factor	0.999937478		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	41	6.2023632
Longitude	90	3	34.2891864
Ellipsoid Height (M):	44.630	0.0020	
Geoid Height (M):	-27.724	0.0020	

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND I-55 IN OSCEOLA, TAKE THE I-55 ON RAMP/SANDY BAYOU ROAD. HEAD SOUTH ON THE ROAD FOR 0.2 MILES TO THE SPLIT OF THE ON RAMP AND SANDY BAYOU ROAD. KEEP RIGHT AT THE SPLIT TO STAY ON SANDY BAYOU ROAD. HEAD SOUTH ON SANDY BAYOU ROAD FOR 0.7 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.2FT E OF THE CENTER LINE OF SANDY BAYOU ROAD AND 4.4FT W OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470031A 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	291	1.30	4.3
MK # 2				
MK # 3				

AZ Mark Station	470031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470032	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	153,648.2031	0.0010
Easting (M)	576,684.1403	0.0010
Elevation (M)*		

Northing (SFT)	504,094.1463	
Easting (SFT)	1,892,004.5503	
Elevation (SFT)*		

Convergence Angle	1	8	10.2433209
Scale Factor			0.999938057
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	42	8.9511876
Longitude	90	2	50.8722288
Ellipsoid Height (M):	43.425		0.0020
Geoid Height (M):	-27.734		0.0020

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 4.3MILES TO THE STATION ON THE RIGHT THE STATION IS 12.1FT W OF THE I-55 EP, AND 59.5FT E OF A WEB WIRE FENCE, AND 59.5FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470032 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	137	18.10	59.4
MK # 2				
MK # 3				

AZ Mark Station	470032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470032A	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	153,287.1691	0.0010
Easting (M)	576,431.0553	0.0010
Elevation (M)*		
Northing (SFT)	502,909.6540	
Easting (SFT)	1,891,174.2206	
Elevation (SFT)*		

Convergence Angle	1	8	4.2204555
Scale Factor	0.999937943		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	41	57.4013580
Longitude	90	3	1.2225888
Ellipsoid Height (M):	42.131	0.0020	
Geoid Height (M):	-27.732	0.0020	

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 4.35 MILES TO THE EXIT 48 OFF RAMP. DRIVE SOUTH ON THE EXIT FOR 0.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS 36.4FT W OF THE EXIT RAMP EP, AND 21.4FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470032A 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	137	6.50	21.3
MK # 2				
MK # 3				

AZ Mark Station	470032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470033	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	155,651.9727	0.0010
Easting (M)	577,743.0670	0.0010
Elevation (M)*		

Northing (SFT)	510,668.1804	
Easting (SFT)	1,895,478.7123	
Elevation (SFT)*		

Convergence Angle	1	8	35.6764839
Scale Factor			0.999938747
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	43	13.2731616	
Longitude	90	2	7.1650608	
Ellipsoid Height (M):			43.410	0.0020
Geoid Height (M):			-27.747	0.0020

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 2.95 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.3FT W OF THE I-55 EP, 42.5FT E OF A WEB WIRE FENCE, AND 40.5FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470033 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	127	13.00	42.7
MK # 2				
MK # 3				

AZ Mark Station	470033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470033A	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	155,278.1572	0.0010
Easting (M)	577,545.5952	0.0010
Elevation (M)*		
Northing (SFT)	509,441.7541	
Easting (SFT)	1,894,830.8403	
Elevation (SFT)*		

Convergence Angle	1	8	30.9327049
Scale Factor			0.999938611
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	43	1.2738036	
Longitude	90	2	15.3172968	
Ellipsoid Height (M):	43.469			0.0030
Geoid Height (M):	-27.745			0.0030

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 3.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.2FT W OF THE I-55 EP, AND 51.9FT E OF A WEB WIRE FENCE, AND 128FT S OF THE CENTER OF A HEAD WALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470033A 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	114	15.80	51.8
MK # 2				
MK # 3				

AZ Mark Station	470033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470034	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	157,164.9968	0.0010
Easting (M)	578,542.5661	0.0010
Elevation (M)*		
Northing (SFT)	515,632.1603	
Easting (SFT)	1,898,101.7356	
Elevation (SFT)*		

Convergence Angle	1	8	54.8863202
Scale Factor	0.999939332		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	44	1.8389508
Longitude	90	1	34.1527476
Ellipsoid Height (M):	43.863	0.0020	
Geoid Height (M):	-27.759	0.0020	

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 1.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.7FT W OF THE I-55 EP, AND 78.3FT E OF A WEB WIRE FENCE, AND 78.0FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470034 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	470034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470034A	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	156,795.0630	0.0010
Easting (M)	578,347.1947	0.0010
Elevation (M)*		

Northing (SFT)	514,418.4692	
Easting (SFT)	1,897,460.7546	
Elevation (SFT)*		

Convergence Angle	1	8	50.1913760
Scale Factor	0.999939184		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	43	49.9648080	
Longitude	90	1	42.2210604	
Ellipsoid Height (M):	43.349			0.0020
Geoid Height (M):	-27.756			0.0020

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 2.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.2FT W OF THE I-55 EP, AND 62.0 FT E OF A WEB WIRE FENCE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470034A 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	113	18.90	62.0
MK # 2				
MK # 3				

AZ Mark Station	470034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470035	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	159,108.0247	0.0010
Easting (M)	579,567.7790	0.0010
Elevation (M)*		

Northing (SFT)	522,006.9110	
Easting (SFT)	1,901,465.2883	
Elevation (SFT)*		

Convergence Angle	1	9	19.5302407
Scale Factor			0.999940164
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	45	4.2043140
Longitude	90	0	51.8019012
Ellipsoid Height (M):	43.559		0.0030
Geoid Height (M):	-27.777		0.0030

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 0.35 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.6FT W OF THE I-55 EP, AND 39.8FT E OF A WITNESS POST. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470035 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	470035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470035A	12/20/2022	ARDOT	MISSISSIPPI	I-55	101076

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	158,715.5938	0.0010
Easting (M)	579,361.3551	0.0010
Elevation (M)*		

Northing (SFT)	520,719.4107	
Easting (SFT)	1,900,788.0459	
Elevation (SFT)*		

Convergence Angle	1	9	14.5668327
Scale Factor			0.999939989
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	44	51.6083928	
Longitude	90	1	0.3315720	
Ellipsoid Height (M):			43.713	0.0030
Geoid Height (M):			-27.773	0.0030

Location Description

TO REACH FROM THE JCT. OF HWY 158 AND I-55 NEAR LUXORA, HEAD SOUTH ON I-55 FOR 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.8FT W OF THE I-55 EP, AND 60.4 FT E OF A WEB WIRE FENCE, AND 116.0FT SE OF THE CENTER OF A HEAD WALL. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470035A 2022" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	470035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWM
Ref Mon # 3	ARWY, TN49

Comments

STATIC GNSS DERIVED ELEVATION IS BASED ON VERTICAL CONSTRAINTS ON ARPG & ARWM IN FINAL NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470036	4/25/2023	ARDOT	MISSISSIPPI	61	101141

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	152,103.3883	0.0010
Easting (M)	582,481.0914	0.0020
Elevation (M)*		
Northing (SFT)	499,025.8664	
Easting (SFT)	1,911,023.3807	
Elevation (SFT)*		

Convergence Angle	1	10	23.6737935
Scale Factor	0.999937554		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	41	15.0444672	
Longitude	89	59	1.5705060	
Ellipsoid Height (M):	45.327			0.0110
Geoid Height (M):	-27.694			0.0110

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND HWY 61 IN OSCEOLA, HEAD SOUTH ON HWY 61 FOR 0.65 MILES TO RICHARD E PREWITT DR. HEAD WEST/RIGHT ON RICHARD E PREWITT DR FOR 0.1 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470036 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	3	15.40	50.5
MK # 2	TELEPHONE BOX	205	1.60	5.2
MK # 3				

AZ Mark Station	470036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWM, MOKE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470036A	4/25/2023	ARDOT	MISSISSIPPI	61	101141

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	152,405.5526	0.0010
Easting (M)	582,684.2498	0.0020
Elevation (M)*		

Northing (SFT)	500,017.2172	
Easting (SFT)	1,911,689.9096	
Elevation (SFT)*		

Convergence Angle	1	10	28.5181016
Scale Factor	0.999937639		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	41	24.7120188
Longitude	89	58	53.2455096
Ellipsoid Height (M):	45.498	0.0110	
Geoid Height (M):	-27.696	0.0110	

Location Description

TO REACH FROM THE JCT. OF HWY 140 AND HWY 61 IN OSCEOLA, HEAD SOUTH ON HWY 61 FOR 0.45 MILES TO THE STATION ON THE LEFT. THE STATION MARK IS A 2 1/2IN CAP STAMPED "470036A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	173	4.80	15.7
MK # 2	RAILROAD SIGNAL POLE	112	13.50	44.3
MK # 3				

AZ Mark Station	470036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	ARWM, MOKE

Comments

LT:35.4125 LG:89.5853

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470037	2/26/2024	ARDOT	Mississippi	14	101215

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	143,105.1545	0.0010
Easting (M)	565,118.3811	0.0020
Elevation (M)*	69.208	

Northing (SFT)	469,504.1611	
Easting (SFT)	1,854,059.2220	
Elevation (SFT)*	227.059	

Convergence Angle	1	3	38.0416605
Scale Factor	0.999936032		
Elevation Adjust. Factor	0.9999891392		
Combined Adjust. Factor	0.9999251719		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	36	34.1036280
Longitude	90	10	38.6537520
Ellipsoid Height (M):	41.453	0.0100	
Geoid Height (M):	-27.755	0.0100	

Location Description

From the intersection of U. S. Interstate 55 and Arkansas State Highway 14 near Marie in Southern Mississippi County Arkansas, travel West along State Highway 14 for 3.6 miles to the Intersection with Missisipi County Road S209 on the Left, then travel South along Mississippi County Road S209 for 0.12 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470037 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 22 feet (6.71 Meters) West of the centerline of Mississippi County Road S209 and 14 feet (4.27 Meters) East of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	272	4.57	15.0
MK # 2	Doubble Down Guy	282	9.75	32.0
MK # 3				

AZ Mark Station	470037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470037A	2/26/2024	ARDOT	Mississippi	14	101215

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	142,486.8639	0.0010
Easting (M)	565,126.2839	0.0020
Elevation (M)*	68.677	
Northing (SFT)	467,475.6526	
Easting (SFT)	1,854,085.1498	
Elevation (SFT)*	225.317	

Convergence Angle	1	3	37.9597524
Scale Factor	0.999935994		
Elevation Adjust. Factor	0.9999892225		
Combined Adjust. Factor	0.9999252172		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	36	14.0396400
Longitude	90	10	38.7945120
Ellipsoid Height (M):	40.934	0.0100	
Geoid Height (M):	-27.752	0.0100	

Location Description

From the intersection of U. S. Interstate 55 and Arkansas State Highway 14 near Marie in Southern Mississippi County Arkansas, travel West along State Highway 14 for 3.6 miles to the Intersection with Missisipi County Road S209 on the Left, then travel South along Mississippi County Road S209 for 0.52 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470037A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 25 feet (7.62 Meters) West of the centerline of Mississippi County Road S209 and 13 feet (3.96 Meters) East of a witness post.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	270	4.57	15.0
MK # 2	West end 24" Metal Culvet	0	15.24	50.0
MK # 3	West end 18" Metal Culvert	120	18.90	62.0

AZ Mark Station	470037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470038	2/27/2024	ARDOT	Mississippi	I-55	101211

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	159,883.9503	0.0010
Easting (M)	580,000.7299	0.0010
Elevation (M)*	72.036	0.0040
Northing (SFT)	524,552.5936	
Easting (SFT)	1,902,885.7280	
Elevation (SFT)*	236.337	

Convergence Angle	1	9	29.9197517
Scale Factor	0.999940522		
Elevation Adjust. Factor	0.9999886954		
Combined Adjust. Factor	0.9999292180		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	45	29.0925360
Longitude	90	0	33.9474132
Ellipsoid Height (M):	44.247		0.0060
Geoid Height (M):	-27.784		

Location Description

From the intersection of U. S. Interstate 55 and Arkansas State Highway 158 near Victoria in Mississippi County Arkansas, travel North along U. S. Interstate 55, 0.15 miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 470038 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 30 feet (9.14 Meters) West of the West edge of the Pavement of North bound U. S. Interstate 55, The station is 15 feet (4.57 Meters) East of the East edge of the Pavement of South bound U. S. Interstate 55 and 3 feet (0.91 Meters) West of a witness post.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	470038A
Geodetic Azimuth	209 10 54.5
Grid Azimuth	208 01 27.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	AROC
Ref Mon # 2	ARJB
Ref Mon # 3	MOKE

Comments

ELEV WAS EST BY HOLDING STATIC DERIVED ELEV AT GPS 470038A AND RUNNING DIGITAL LEVELS TO 470038.BY CREW S5101 DURING JOB 10X739 IN FEB 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470038A	2/27/2024	ARDOT	Mississippi	I 55	101211

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	159,445.3974	0.0010
Easting (M)	579,767.3088	0.0010
Elevation (M)*	72.119	0.0000
Northing (SFT)	523,113.7746	
Easting (SFT)	1,902,119.9123	
Elevation (SFT)*	236.610	

Convergence Angle	1	9	24.3086747
Scale Factor	0.999940318		
Elevation Adjust. Factor	0.9999886823		
Combined Adjust. Factor	0.9999290010		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	45	15.0184260	
Longitude	90	0	43.5901104	
Ellipsoid Height (M):	44.339			0.0060
Geoid Height (M):	-27.780			

Location Description

From the intersection of U. S. Interstate 55 and Arkansas State Highway 158 near Victoria in Mississippi County Arkansas, travel South along U. S. Interstate 55, 0.15 miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 470038A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 10 feet (3.04 Meters) East of the East edge of the Pavement of South bound U. S. Interstate 55, The station is 35 feet (10.67 Meters) West of the West edge of the Pavement of North bound U. S. Interstate 55 and 3 feet (0.91 Meters) West of a witness post.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	470038
Geodetic Azimuth	29 10 54.5
Grid Azimuth	28 01 27.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	AROC
Ref Mon # 2	ARJB
Ref Mon # 3	MOKE

Comments

ELEV WAS EST BY STATIC OBS HOLDING NGS BM F 214.BY CREW S5101 DURING JOB 10X739 IN FEB 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470039	2/27/2024	ARDOT	Mississippi	120	10X746, 101212

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,532.7282	0.0030
Easting (M)	596,354.5348	0.0030
Elevation (M)*	76.671	0.0091
Northing (SFT)	539,804.4591	
Easting (SFT)	1,956,539.8363	
Elevation (SFT)*	251.544	

Convergence Angle	1	15	51.0320874
Scale Factor	0.999942797		
Elevation Adjust. Factor	0.9999879680		
Combined Adjust. Factor	0.9999307657		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	47	48.6831840
Longitude	89	49	39.0017064
Ellipsoid Height (M):	48.852	0.0190	
Geoid Height (M):	-27.791		

Location Description

From the intersection on U.S. Highway 61 and Arkansas State Highway 158 near Luxora in Mississippi County, Arkansas, travel North along U. S. Highway 61 for 2.17 Miles to the intersection of U.S. Highway 61 and Arkansas State Highway 120 on the Rright, then travel East along Arkansas State Highway 120 for 6.63 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470039 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 23 feet (7.01 Meters) South of the centerline of Arkansas State Highway 120 and 16 feet (4.88 Meters) North of a witness post.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	180	5.18	17.0
MK # 2	Power Pole With Transformers	120	11.58	38.0
MK # 3	Ease end 18 inch metal culvert	232	7.31	24.0

AZ Mark Station	Z 213
Geodetic Azimuth	69 05 55.3
Grid Azimuth	67 50 4.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	TN45

Comments

ELEV EST. BY DIGITAL LEVELS FROM BM Z 213 BY CREW S5101 DURING JOB 10X176 IN FEB. 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470040	4/4/2024	ARDOT	Mississippi	239	10X584

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83(2011)

Northing (M)	176,931.5189	0.0010
Easting (M)	579,582.0197	0.0010
Elevation (M)*	73.548	0.0012
Northing (SFT)	580,482.8249	
Easting (SFT)	1,901,512.0096	
Elevation (SFT)*	241.300	

Convergence Angle	1	9	28.2020840
Scale Factor			0.999952227
Elevation Adjust. Factor			0.9999884580
Combined Adjust. Factor			0.9999406855

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	54	42.3977796	
Longitude	90	0	36.8992440	
Ellipsoid Height (M):			45.477	0.0040
Geoid Height (M):			-28.071	

Location Description

From the intersection of U. S. Hwy 61 and Arkansas State Highway 18 on the West Side of Blytheville, Mississippi County Arkansas, travel West along State Highway 61 for 1.3 miles to the Intersection with Arkansas State Highway 239 on the Right, then travel West along Arkansas State Highway 239 for 4.4 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470040 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 33 feet (7.32 Meters) North of the centerline of Arkansas State Highway 239 and 6 feet (1.83 Meters) South of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	357	2.74	9.0
MK # 2	West End of a 18" Culvert	95	31.09	102.0
MK # 3				

AZ Mark Station	470040A
Geodetic Azimuth	92 30 54.9
Grid Azimuth	91 21 26.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARJB

Comments

ELEV WAS EST BY STATIC OBS HOLDING BM J 189 DURING JOB 10X584 BY CREW S5101 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470040A	3/4/2024	ARDOT	Mississippi	239	10X584

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83(2011)

Northing (M)	176,917.5017	0.0010
Easting (M)	580,173.5776	0.0010
Elevation (M)*	74.189	0.0061
Northing (SFT)	580,436.8368	
Easting (SFT)	1,903,452.8125	
Elevation (SFT)*	243.402	

Convergence Angle	1	9	41.9221321
Scale Factor	0.999952204		
Elevation Adjust. Factor	0.9999883574		
Combined Adjust. Factor	0.9999405620		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	54	41.5545804	
Longitude	90	0	13.3211916	
Ellipsoid Height (M):	46.121			0.0040
Geoid Height (M):	-28.071			

Location Description

From the intersection of U. S. Hwy 61 and Arkansas State Highway 18 on the West Side of Blytheville, Mississippi County Arkansas, travel West along State Highway 61 for 1.3 miles to the Intersection with Arkansas State Highway 239 on the Right, then travel West along Arkansas State Highway 239 for 4.0 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 470040A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 24 feet (7.32 Meters) North of the centerline of Arkansas State Highway 239 and 16 feet (4.88 Meters) South of a witness post.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	13	5.18	17.0
MK # 2	East End of a 18" Metal Culvert	209	17.37	57.0
MK # 3	West End of a 18" Metal Culvert	163	17.37	57.0

AZ Mark Station	470040
Geodetic Azimuth	272 30 54.9
Grid Azimuth	271 21 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARJB

Comments

ELEV WAS EST BY STATIC OBS HOLDING BM J 189 TO GPS 470040. DIGITAL LEVELS WERE RAN HOLDING ELEV OF 470040 TO EST ELEV ON 470040A DURING JOB 10X584 BY CREW S5101 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470041	10/20/2025	ARDOT	Mississippi	181	101220

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83(2011)

Northing (M)	145,070.1361	0.0010
Easting (M)	573,064.9017	0.0010
Elevation (M)*	70.825	0.0000
Northing (SFT)	475,950.9382	
Easting (SFT)	1,880,130.4317	
Elevation (SFT)*	232.366	

Convergence Angle	1	6	42.6260444
Scale Factor	0.999936198		
Elevation Adjust. Factor	0.9999888853		
Combined Adjust. Factor	0.9999250840		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	37	32.9649492
Longitude	90	5	21.4434744
Ellipsoid Height (M):	43.121		0.0040
Geoid Height (M):	-27.705		

Location Description

FROM THE INTERSECTION OF INTERSTATE 55 AND ARKANSAS HIGHWAY 14 (EXIT 41) SOUTH OF OCEOLA, ARKANSAS, TRAVEL EAST ALONG ARKANSAS HIGHWAY 14 FOR 1.3 MILES TO THE INTERSECTION OF ARKANSAS HIGHWAY 181 ON THE NORTH, THEN TRAVEL NORTH ALONG ARKANSAS HIGHWAY 181 FOR 1.0 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3" ALUMINUM ARDOT GPS MONUMENT STAMPED 470041, 2025 , SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 38 FEET (11.58M) WEST OF THE CENTERLINE OF ARKANSAS HIGHWAY 181 AND 3 FOOT (.91M) WEST OF A ARDOT WITNESS POST AND IS ACROSS FROM MISSISSIPPI COUNTY ROAD W 860.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF CONCRETE HEAD WALL	130	7.92	26.0
MK # 2	SOUTH END OF A 18" STEEL CULVERT UND FR A FIELD ENTRANCE	340	7.92	26.0
MK # 3				

AZ Mark Station	470041A
Geodetic Azimuth	359 43 44.1
Grid Azimuth	358 37 01.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM

Comments

ELEV DETERMINED BY STATIC OBS HOLDING ELEV AT GPS 470022 BY CREW S5101 DURING JOB 101220 IN OCT 25.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470041A	10/20/2025	ARDOT	Mississippi	181	101220

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83(2011)

Northing (M)	145,868.9838	0.0010
Easting (M)	573,045.6167	0.0010
Elevation (M)*	70.272	0.0007
Northing (SFT)	478,571.8244	
Easting (SFT)	1,880,067.1608	
Elevation (SFT)*	230.552	

Convergence Angle	1	6	42.5386059
Scale Factor	0.999936297		
Elevation Adjust. Factor	0.9999889721		
Combined Adjust. Factor	0.9999252698		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	37	58.8936144
Longitude	90	5	21.5937384
Ellipsoid Height (M):	42.567	0.0040	
Geoid Height (M):	-27.709		

Location Description

FROM THE INTERSECTION OF INTERSTATE 55 AND ARKANSAS HIGHWAY 14 (EXIT 41) SOUTH OF OCEOLA, ARKANSAS, TRAVEL EAST ALONG ARKANSAS HIGHWAY 14 FOR 1.3 MILES TO THE INTERSECTION OF ARKANSAS HIGHWAY 181 ON THE NORTH, THEN TRAVEL NORTH ALONG ARKANSAS HIGHWAY 181 FOR 1.5 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3" ALUMINUM ARDOT GPS MONUMENT STAMPED 470041A, 2025 , SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 29 FEET (8.84M) WEST OF THE CENTERLINE OF ARKANSAS HIGHWAY 181 AND 3 FOOT (.91M) SOUTH OF A ARDOT WITNESS POST

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF A CONCRETE HEADWALL	35	4.27	14.0
MK # 2	NORTH END OA A 18" STELL CULVERT UN DER A FIELD ENTRANCE	280	8.84	29.0
MK # 3				

AZ Mark Station	470041
Geodetic Azimuth	179 43 44.1
Grid Azimuth	178 37 01.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM

Comments

ELEV DETERMINED BY DIGITAL LEVELS FROM ARDOT GPS 470041 BY CREW S5101 DURING JOB 101220 IN OCT 25.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470042	10/20/2025	ARDOT	Mississippi	119	101220

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83(2011)

Northing (M)	145,071.3782	0.0010
Easting (M)	578,092.4605	0.0010
Elevation (M)*	71.597	0.0007
Northing (SFT)	475,955.0133	
Easting (SFT)	1,896,625.0142	
Elevation (SFT)*	234.898	

Convergence Angle	1	8	38.8729724
Scale Factor	0.999936187		
Elevation Adjust. Factor	0.9999887642		
Combined Adjust. Factor	0.9999249519		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	37	29.7937704
Longitude	90	2	1.6718604
Ellipsoid Height (M):	43.927	0.0030	
Geoid Height (M):	-27.665		

Location Description

FROM THE INTERSECTION OF INTERSTATE 55 AND ARKANSAS HIGHWAY 14 (EXIT 41) SOUTH OF OCEOLA, ARKANSAS, TRAVEL EAST ALONG ARKANSAS HIGHWAY 14 FOR 1.7 MILES TO THE INTERSECTION OF ARKANSAS HIGHWAY 181 AND ARKANSAS HIGHWAY 119 CONTINUE EAST ALONG ARKANSAS HIGHWAY 119 FOR 1.9 THEN CONTINUE NORTH ALONG ARKANSAS HIGHWAY 119 FOR 1.0 MILES THEN EAST ALONG ARKANSAS HIGHWAY 119 FOR 0.85 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3" ALUMINUM ARDOT GPS MONUMENT STAMPED 470042, 2025 , SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 32 FEET (9.75M) SOUTH OF THE CENTERLINE OF ARKANSAS HIGHWAY 119 AND 22 FOOT (6.70M) EAST OF A ARDOT WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH LIGHT	265	6.70	22.0
MK # 2	POWER POLE	340	20.73	68.0
MK # 3				

AZ Mark Station	470042A
Geodetic Azimuth	90 103 47.3
Grid Azimuth	89 04 58.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM

Comments

ELEV DETERMINED BY DIGITAL LEVELS FROM ARDOT GPS 470042A BY CREW S5101 DURING JOB 101220 IN OCT 25.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
470042A	10/20/2025	ARDOT	Mississippi	119	101220

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83(2011)

Northing (M)	145,084.6223	0.0010
Easting (M)	578,919.9247	0.0010
Elevation (M)*	71.810	0.0000
Northing (SFT)	475,998.4650	
Easting (SFT)	1,899,339.7863	
Elevation (SFT)*	235.598	

Convergence Angle	1	8	58.0113580
Scale Factor			0.999936186
Elevation Adjust. Factor			0.9999887308
Combined Adjust. Factor			0.9999249175

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	37	29.6860620	
Longitude	90	1	28.7823360	
Ellipsoid Height (M):			44.153	0.0030
Geoid Height (M):			-27.658	

Location Description

FROM THE INTERSECTION OF INTERSTATE 55 AND ARKANSAS HIGHWAY 14 (EXIT 41) SOUTH OF OCEOLA, ARKANSAS, TRAVEL EAST ALONG ARKANSAS HIGHWAY 14 FOR 1.7 MILES TO THE INTERSECTION OF ARKANSAS HIGHWAY 181 AND ARKANSAS HIGHWAY 119 CONTINUE EAST ALONG ARKANSAS HIGHWAY 119 FOR 1.9 THEN CONTINUE NORTH ALONG ARKANSAS HIGHWAY 119 FOR 1.0 MILES THEN EAST ALONG ARKANSAS HIGHWAY 119 FOR 1.35 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 3" ALUMINUM ARDOT GPS MONUMENT STAMPED 470042A, 2025 , SET FLUSH WITH THE GROUND ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 29 FEET (8.84M) SOUTH OF THE CENTERLINE OF ARKANSAS HIGHWAY 119 AND6 FOOT (1.82M) NORTH OF A ARDOT WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	180	1.82	6.0
MK # 2	POWER POLE	45	26.52	87.0
MK # 3				

AZ Mark Station	470042
Geodetic Azimuth	269 04 58.9
Grid Azimuth	269 04 58.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	AROC
Ref Mon # 3	ARWM

Comments

ELEV DETERMINED BY STATIC OBS HOLDING ELEV AT GPS 470022 BY CREW S5101 DURING JOB 101220 IN OCT 25.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480001	1/19/1995	AHTD	MONROE	79	110123

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	621,436.4840	
Easting (M)	456,699.4650	
Elevation (M)*	65.621	
Northing (SFT)	2,038,829.5313	
Easting (SFT)	1,498,354.8281	
Elevation (SFT)*	215.292	

Convergence Angle	0	20	46.3793748	
Scale Factor	0.999978254			
Elevation Adjust. Factor	0.9999897020			
Combined Adjust. Factor	0.9999679563			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	39	41.6551140	
Longitude	91	22	53.0925240	
Ellipsoid Height (M):	38.174			
Geoid Height (M):	-27.447			

Location Description

FROM THE JCT. OF HWY. 79 AND HWY. 33 IN THE TOWN OF ROE SOUTHWEST OF CLARENDON, GO NORTH ON HWY. 79 FOR 3.347 KM (2.08 MILES) TO THE STATION ON THE LEFT. THE STATION IS ALSO 1.40 KM (0.87 MILES) SOUTH OF A RELIEF BRIDGE AT LOG MILE 5.36. THE STATION IS 17.80 METERS NORTHWEST OF THE CENTERLINE OF HWY. 79, 73 METERS SOUTHWEST OF A DRIVEWAY AND 1.65 METERS SOUTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "480001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	226	16.20	53.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480001A
Geodetic Azimuth	48 36 31.80138
Grid Azimuth	48 15 45.51321

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ROE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480001A	1/19/1995	AHTD	MONROE	79	110123

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	621,891.5620	
Easting (M)	457,209.5630	
Elevation (M)*	61.183	
Northing (SFT)	2,040,322.5663	
Easting (SFT)	1,500,028.3746	
Elevation (SFT)*	200.731	

Convergence Angle	0	20	57.6531723
Scale Factor	0.999979034		
Elevation Adjust. Factor	0.9999903985		
Combined Adjust. Factor	0.9999694327		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	39	56.3226876
Longitude	91	22	32.9496168
Ellipsoid Height (M):	33.731		
Geoid Height (M):	-27.452		

Location Description

FROM THE JCT. OF HWY. 79 AND HWY. 33 IN THE TOWN OF ROE SOUTHWEST OF CLARENDON, GO NORTH ON HWY. 79 FOR 4.023 KM (2.50 MILES) TO THE STATION ON THE RIGHT IN A GRAVEL PULL-OVER. THE STATION IS ALSO 0.724 KM (0.45 MILES) SOUTH OF A RELIEF BRIDGE AT LOG MILE 5.36. THE STATION IS 11.0 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAPSTAMPED "480001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITHTHE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	12" ELM TREE	201	22.00	72.2
MK # 2	18" SWEET GUM	60	25.50	83.7
MK # 3	NONE			

AZ Mark Station	480001
Geodetic Azimuth	228 36 43.2578
Grid Azimuth	228 15 45.5132

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ROE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480002	1/19/1995	AHTD	MONROE	79	110123

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	625,065.3529	
Easting (M)	465,123.6430	
Elevation (M)*	53.154	
Northing (SFT)	2,050,735.2453	
Easting (SFT)	1,525,993.1521	
Elevation (SFT)*	174.389	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	41	37.6421604	
Longitude	91	17	21.2479764	
Ellipsoid Height (M):	25.665			
Geoid Height (M):	-27.489			

Convergence Angle	0	23	52.1096775	
Scale Factor	0.999984563			
Elevation Adjust. Factor	0.9999916585			
Combined Adjust. Factor	0.9999762216			

Location Description

FROM THE JCT. OF HWY. 79 AND HWY. 79B ON THE SOUTHEAST SIDE OF CLARENDON, GO NORTH ON HWY. 79 FOR 0.805 KM (0.50 MILES) TO THE STATION ON THE LEFT. THE STATION IS 22.4 METERS NORTH OF THE CENTERLINE OF HWY. 79, 28.7 METERS WEST OF THE CENTER OF A GRAVEL ROAD, 2.6 METERS EAST OF THE EDGE OF A DRAINAGE DITCH AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "480002" SET ON TOPOF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS VALVE	50	2.80	9.2
MK # 2	END OF 24" METAL PIPE	100	21.70	71.2
MK # 3	3" STEEL POST	170	1.40	4.6

AZ Mark Station	480002A
Geodetic Azimuth	94 11 44.5453
Grid Azimuth	93 47 52.5639

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ROE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480002A	1/19/1995	AHTD	MONROE	79	110123

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	625,019.6960	
Easting (M)	465,811.4250	
Elevation (M)*	55.471	
Northing (SFT)	2,050,585.4526	
Easting (SFT)	1,528,249.6502	
Elevation (SFT)*	181.991	

Convergence Angle	0	24	7.2268972	
Scale Factor	0.999984472			
Elevation Adjust. Factor	0.9999912949			
Combined Adjust. Factor	0.9999757670			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	41	36.0047544	
Longitude	91	16	54.2380224	
Ellipsoid Height (M):	27.981			
Geoid Height (M):	-27.490			

Location Description

FROM THE JCT. OF HWY. 79 AND HWY. 79B ON THE SOUTHEAST SIDE OF CLARENDON, GO NORTH ON HWY. 79 FOR 1.48 KM (0.92 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 18.2 METERS SOUTH OF THE CENTER OF HWY. 79, 53.5 METERS EAST OF THE CENTER OF HWY. 86 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "480002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	90	16.70	54.8
MK # 2	POWER POLE	260	26.60	87.3
MK # 3	NONE			

AZ Mark Station	480002
Geodetic Azimuth	274 11 59.9190
Grid Azimuth	273 47 52.5639

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ROE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480003	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	31,550.2221	
Easting (M)	485,872.5998	
Elevation (M)*	55.335	
Northing (SFT)	103,511.0203	
Easting (SFT)	1,594,067.0212	
Elevation (SFT)*	181.545	

Convergence Angle	0	32	41.2739884
Scale Factor	1.000078095		
Elevation Adjust. Factor	0.9999913162		
Combined Adjust. Factor	1.0000694105		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	36	50.5135836
Longitude	91	3	49.5292536
Ellipsoid Height (M):	28.726		
Geoid Height (M):	-26.684		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 12.38 KM (7.69 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 5.00 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 590.013 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480003A
Geodetic Azimuth	140 12 55.64848
Grid Azimuth	139 40 14.27174

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480003A	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	31,100.4042
Easting (M)	486,254.4679
Elevation (M)*	54.923
Northing (SFT)	102,035.2428
Easting (SFT)	1,595,319.8668
Elevation (SFT)*	180.193

Convergence Angle	0	32	49.8969654
Scale Factor	1.000079292		
Elevation Adjust. Factor	0.9999913809		
Combined Adjust. Factor	1.0000706722		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	36	35.7998796
Longitude	91	3	34.7105736
Ellipsoid Height (M):	28.314		
Geoid Height (M):	-26.688		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 13.10 KM (8.14 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 6.50 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 590.013 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST END CONCRETE HEADWALL	142	26.60	87.3
MK # 2	NORHWEST END OF CMP	71	6.20	20.3
MK # 3	NONE			

AZ Mark Station	480003
Geodetic Azimuth	320 13 04.06577
Grid Azimuth	319 40 14.27174

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480004	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	35,411.4471	
Easting (M)	483,763.4987	
Elevation (M)*	55.313	
Northing (SFT)	116,179.0560	
Easting (SFT)	1,587,147.4120	
Elevation (SFT)*	181.473	

Convergence Angle	0	31	53.9245668	
Scale Factor	1.000068047			
Elevation Adjust. Factor	0.9999913197			
Combined Adjust. Factor	1.0000593661			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	38	56.4453960	
Longitude	91	5	10.8997512	
Ellipsoid Height (M):	28.676			
Geoid Height (M):	-26.658			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 7.71 KM (4.79 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS EAST-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 512.681 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480004A
Geodetic Azimuth	144 28 37.68772
Grid Azimuth	143 56 43.68496

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480004A	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	34,996.9428	
Easting (M)	484,065.2568	
Elevation (M)*	55.398	
Northing (SFT)	114,819.1365	
Easting (SFT)	1,588,137.4300	
Elevation (SFT)*	181.752	

Convergence Angle	0	32	0.7308929
Scale Factor			1.000069110
Elevation Adjust. Factor			0.9999913063
Combined Adjust. Factor			1.0000604157

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	38	42.9045144
Longitude	91	4	59.2030056
Ellipsoid Height (M):	28.772		
Geoid Height (M):	-26.661		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 8.10 KM (5.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS ABOUT 90.00 METERS SOUTHEAST OF THE EXTENDED CENTER OF STATE HIGHWAY 362, 9.40 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 512.681 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480004
Geodetic Azimuth	324 28 44.33756
Grid Azimuth	323 56 43.68496

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480005	12/11/2000	AHTD	MONROE	49	110385,110672

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	38,558.3913	
Easting (M)	480,053.0010	
Elevation (M)*	56.074	
Northing (SFT)	126,503.6555	
Easting (SFT)	1,574,973.8874	
Elevation (SFT)*	183.969	

Convergence Angle	0	30	29.7852620
Scale Factor	1.000060086		
Elevation Adjust. Factor	0.9999912002		
Combined Adjust. Factor	1.0000512857		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	40	39.6506928
Longitude	91	7	35.4940644
Ellipsoid Height (M):	29.470		
Geoid Height (M):	-26.648		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 2.82 KM (1.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.00 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "480005 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.889 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END CMP	176	4.40	14.4
MK # 2	WEST END CMP	279	5.30	17.4
MK # 3	NONE			

AZ Mark Station	480005A
Geodetic Azimuth	123 47 04.19732
Grid Azimuth	123 16 34.26488

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480005A	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	38,176.5526
Easting (M)	480,634.8217
Elevation (M)*	55.120
Northing (SFT)	125,250.9063
Easting (SFT)	1,576,882.7442
Elevation (SFT)*	180.840
Convergence Angle	0 30 43.0053522
Scale Factor	1.000061041
Elevation Adjust. Factor	0.9999913499
Combined Adjust. Factor	1.0000523904

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 40 27.0925932
Longitude	91 7 12.7751952
Ellipsoid Height (M):	28.510
Geoid Height (M):	-26.648

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 3.49 KM (2.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.70 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480005A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.889 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480005
Geodetic Azimuth	303 47 17.12286
Grid Azimuth	303 16 34.26488

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480006	12/11/2000	AHTD	MONROE	49	110385,110672

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	42,506.4441	
Easting (M)	477,995.0978	
Elevation (M)*	55.700	
Northing (SFT)	139,456.5587	
Easting (SFT)	1,568,222.2500	
Elevation (SFT)*	182.742	

Convergence Angle	0	29	43.5300659
Scale Factor	1.000050504		
Elevation Adjust. Factor	0.9999912589		
Combined Adjust. Factor	1.0000417625		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	42	48.3435648
Longitude	91	8	54.9841236
Ellipsoid Height (M):	29.089		
Geoid Height (M):	-26.653		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 1.79 (1.11 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.70 METERS WEST OF THE CENTER OF U.S. HIHGWAY 49, 13.20 METER SOUTH OF A FIELD ENTRANCE AND 1.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.888 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CROSS TIE GATE POST	6	9.50	31.2
MK # 2	SOUTH END CMP	23	11.10	36.4
MK # 3	NORTH END CONCRETE HEADWALL	152	12.00	39.4

AZ Mark Station	480006A
Geodetic Azimuth	180 49 23.94510
Grid Azimuth	180 19 40.41761

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480006A	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	41,772.5318	
Easting (M)	477,990.8977	
Elevation (M)*	55.725	
Northing (SFT)	137,048.7147	
Easting (SFT)	1,568,208.4702	
Elevation (SFT)*	182.824	

Convergence Angle	0	29	43.2889355
Scale Factor	1.000052248		
Elevation Adjust. Factor	0.9999912550		
Combined Adjust. Factor	1.0000435026		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	42	24.5304072	
Longitude	91	8	55.3985088	
Ellipsoid Height (M):	29.102			
Geoid Height (M):	-26.652			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 1.06 KM (0.66 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.10 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.888 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480006
Geodetic Azimuth	0 49 23.709132
Grid Azimuth	0 19 40.417610

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480007	12/11/2000	AHTD	MONROE	49	110646

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	47,591.8809	0.0020
Easting (M)	477,360.7028	0.0020
Elevation (M)*	60.999	
Northing (SFT)	156,141.0293	
Easting (SFT)	1,566,140.9058	
Elevation (SFT)*	200.127	

Convergence Angle	0	29	30.0218330
Scale Factor			1.000038767
Elevation Adjust. Factor			0.9999904274
Combined Adjust. Factor			1.0000291940

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	45	33.5366028
Longitude	91	9	18.1994256
Ellipsoid Height:			34.342
Grid Northing (Meters)			47,591.8988
Grid Easting (Meters)			477,360.6707

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:	GEOID12A			
Latitude	34	45	33.5360124	
Longitude	91	9	18.1981692	
Ellipsoid Height (M):			34.259	0.0110
Geoid Height (M):			-26.777	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 7.05 KM (4.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.60 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 11.00 METERS NORTHWEST OF THE CENTER OF A PASTURE ENTRANCE AND 1.54 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 491.907 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480007A
Geodetic Azimuth	142 48 00.29363
Grid Azimuth	142 18 30.20361

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM AHTD GPS MON 480007A and 30DWB 1970 during job 110615 by crew s5102 in February 2016.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480007A	12/11/2000	AHTD	MONROE	49	110385, 110646,110616

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	47,202.6312
Easting (M)	477,661.4399
Elevation (M)*	60.237
Northing (SFT)	154,863.9659
Easting (SFT)	1,567,127.5741
Elevation (SFT)*	197.628
Convergence Angle	0 29 36.8256746
Scale Factor	1.000039648
Elevation Adjust. Factor	0.9999905469
Combined Adjust. Factor	1.0000301946

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 45 20.8214892
Longitude	91 9 6.5056932
Ellipsoid Height (M):	33.578
Geoid Height (M):	-26.669

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 79, LOCATED ABOUT 20.94 KM (13.01 MI) SOUTHEAST OF BRINKLEY, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 6.53 KM (4.06 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.90 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE, 8.90 METERS NORTHEAST OF THE CENTERR OF U.S. HIGHWAY 49 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 491.907 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480007
Geodetic Azimuth	322 48 06.96028
Grid Azimuth	322 18 30.20361

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480008	12/11/2000	AHTD	MONROE	49	110385,110646

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	51,066.7887	
Easting (M)	474,434.6135	
Elevation (M)*	57.499	
Northing (SFT)	167,541.6226	
Easting (SFT)	1,556,540.8945	
Elevation (SFT)*	188.645	

Convergence Angle	0	28	23.7323755
Scale Factor	1.000031066		
Elevation Adjust. Factor	0.9999909766		
Combined Adjust. Factor	1.0000220423		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	47	27.0918816
Longitude	91	11	12.1173252
Ellipsoid Height (M):	30.815		
Geoid Height (M):	-26.707		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 9.25 KM (5.76 MI) TO THE STATION ON THE RIGHT. 11.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49, 6.90 METERS NORTH OF THE EXTENDED CENTER LINE OF A FIELD ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 450.806 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WELL HEAD	183	19.90	65.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480008A
Geodetic Azimuth	164 17 48.76630
Grid Azimuth	163 49 25.00673

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480008A	12/11/2000	AHTD	MONROE	49	110385, 110646,110616

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	50,633.7965	0.0020
Easting (M)	474,560.2442	0.0020
Elevation (M)*	58.499	

Northing (SFT)	166,121.0474	
Easting (SFT)	1,556,953.0678	
Elevation (SFT)*	191.925	

Convergence Angle	0	28	26.5258090
Scale Factor			1.000032005
Elevation Adjust. Factor			0.9999908197
Combined Adjust. Factor			1.0000228244

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	47	13.0087860
Longitude	91	11	7.3181256
Ellipsoid Height:			31.816
Grid Northing (Meters)			50,633.8173
Grid Easting (Meters)			474,560.2098

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	34	47	13.0081020
Longitude	91	11	7.3167792
Ellipsoid Height (M):	31.731		0.0120
Geoid Height (M):	-26.810		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 9.74 KM (6.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS WEST-SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 450.806 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480008
Geodetic Azimuth	344 17 51.50451
Grid Azimuth	343 49 25.00673

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480009	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	55,688.9598	
Easting (M)	474,111.5462	
Elevation (M)*	58.271	
Northing (SFT)	182,706.1956	
Easting (SFT)	1,555,480.9645	
Elevation (SFT)*	191.177	

Convergence Angle	0	28	17.2085382
Scale Factor	1.000021346		
Elevation Adjust. Factor	0.9999908555		
Combined Adjust. Factor	1.0000122013		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	49	57.1624932
Longitude	91	11	23.3286108
Ellipsoid Height (M):	31.532		
Geoid Height (M):	-26.739		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 4.64 KM (2.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 529.114 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CONCRETE HEADWALL	349	23.10	75.8
MK # 2	POWER POLE	154	32.40	106.3
MK # 3	NONE			

AZ Mark Station	480009A
Geodetic Azimuth	181 08 19.56094
Grid Azimuth	180 40 02.35463

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480009A	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	55,159.8787	
Easting (M)	474,105.3838	
Elevation (M)*	56.574	
Northing (SFT)	180,970.3687	
Easting (SFT)	1,555,460.7467	
Elevation (SFT)*	185.610	

Convergence Angle	0	28	16.9677408
Scale Factor	1.000022431		
Elevation Adjust. Factor	0.9999911218		
Combined Adjust. Factor	1.0000135526		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	49	39.9960336	
Longitude	91	11	23.7424236	
Ellipsoid Height (M):	29.839			
Geoid Height (M):	-26.735			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 5.15 KM (3.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.10 METERS NORTH OF THE CENTER OF SKINNER ROAD, 15.00 METERS EAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 529.114 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	165	15.25	50.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480009
Geodetic Azimuth	1 08 19.324592
Grid Azimuth	0 40 02.354625

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480010	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	59,525.2505	
Easting (M)	472,769.6383	
Elevation (M)*	57.114	
Northing (SFT)	195,292.4260	
Easting (SFT)	1,551,078.3883	
Elevation (SFT)*	187.382	

Convergence Angle	0	27	47.1893039
Scale Factor	1.000013658		
Elevation Adjust. Factor	0.9999910370		
Combined Adjust. Factor	1.0000046949		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	52	2.0012700
Longitude	91	12	14.9169924
Ellipsoid Height (M):	30.339		
Geoid Height (M):	-26.775		

Location Description

THE STATION IS LOCATED ON THE SOUTH SIDE OF BRINKLEY AT THE JUNCTION OF U.S. HIGHWAY 70 AND U.S. HIGHWAY 49. THE STATION IS 37.68 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 70, 25.76 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480010 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 505.508 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END CONCRETE HEADWALL	49	11.15	36.6
MK # 2	GUY POLE	99	25.65	84.2
MK # 3	NONE			

AZ Mark Station	480010A
Geodetic Azimuth	114 43 55.37939
Grid Azimuth	114 16 08.09760

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480010A	12/11/2000	AHTD	MONROE	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	59,317.4748
Easting (M)	473,230.4769
Elevation (M)*	66.468
Northing (SFT)	194,610.7486
Easting (SFT)	1,552,590.3230
Elevation (SFT)*	218.070

Convergence Angle	0	27	57.7081669
Scale Factor			1.000014072
Elevation Adjust. Factor			0.9999895691
Combined Adjust. Factor			1.0000036410

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	51	55.1379060	
Longitude	91	11	56.8402116	
Ellipsoid Height (M):	39.698			
Geoid Height (M):	-26.770			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 70, LOCATED ON THE SOUTH SIDE OF BRINKLEY, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 0.55 KM (0.34 MI) TO THE SOUTHEAST END OF A BRIDGE AND THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS WEST OF THE CENTER OF A HEADWALL, 8.50 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49, 2.50 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF A BRIDGE AND 2.48 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480010A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK T 170. THE SHOT DISTANCE IS 505.508 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480010
Geodetic Azimuth	294 44 05.71321
Grid Azimuth	294 16 08.09760

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT T 170

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480011	12/11/2000	AHTD	MONROE	70	110389,110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	641,248.7894	0.0020
Easting (M)	467,403.8587	0.0020
Elevation (M)*	54.321	0.0000
Northing (SFT)	2,103,830.4032	
Easting (SFT)	1,533,474.1598	
Elevation (SFT)*	178.217	

Convergence Angle	0	24	44.8131617
Scale Factor			1.000017066
Elevation Adjust. Factor			0.9999914754
Combined Adjust. Factor			1.0000085413

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	50	22.2757368
Longitude	91	15	47.0839680
Ellipsoid Height:			27.544
Grid Northing (Meters)			641,248.8045
Grid Easting (Meters)			467,403.8238

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	50	22.2752400	
Longitude	91	15	47.0826000	
Ellipsoid Height (M):			27.428	0.0060
Geoid Height (M):			-26.897	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST ON U.S. HIGHWAY 70 FOR 1.77 KM (1.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.50 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70, 8.80 METERS WEST OF THE CENTER OF A PAVED FIELD ENTRANCE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480011 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. THE SHOT DISTANCE IS 434.084 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480011A
Geodetic Azimuth	270 41 51.79016
Grid Azimuth	270 16 08.15135

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	H MSB5

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170.
**********Updated in April 2018 by C.L.S. During job 110664, constraining elevation on Q170.**********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480011A	12/11/2000	AHTD	MONROE	70	110389,110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	641,250.9655	0.0020
Easting (M)	466,969.7753	0.0020
Elevation (M)*	52.847	0.0034
Northing (SFT)	2,103,837.5426	
Easting (SFT)	1,532,050.0045	
Elevation (SFT)*	173.381	

Convergence Angle	0	24	35.2515784
Scale Factor			1.000017078
Elevation Adjust. Factor			0.9999917067
Combined Adjust. Factor			1.0000087846

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	50	22.4469348
Longitude	91	16	4.1676672
Ellipsoid Height:			26.032
Grid Northing (Meters)			641,250.9656
Grid Easting (Meters)			466,969.7403

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	50	22.4469240	
Longitude	91	16	4.1662920	
Ellipsoid Height (M):			25.952	0.0060
Geoid Height (M):			-26.901	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST ON U.S. HIGHWAY 70 FOR 2.20 KM (1.37 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.10 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "480011A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. THE SHOT DISTANCE IS 434.084 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480011
Geodetic Azimuth	90 41 42.030587
Grid Azimuth	90 16 08.151346

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5111 FROM U.S.C.&G.S. BENCH MARK P 170. **********Updated in April 2018 by C.L.S. During job 110664, constraining elevation on Q170.**********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480012	12/15/2000	AHTD	MONROE	146	110391

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	611,755.2039
Easting (M)	479,610.5710
Elevation (M)*	
Northing (SFT)	2,007,066.8648
Easting (SFT)	1,573,522.3484
Elevation (SFT)*	
Convergence Angle	0 29 8.1917066
Scale Factor	0.999962511
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	34	22.0810656
Longitude	91	7	56.5038480
Ellipsoid Height (M):	27.164		
Geoid Height (M):	-26.685		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 5.198 KM (3.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.70 METERS EAST OF THE CENTER OF STATE HIGHWAY 146 AND O.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.844 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	480012A
Geodetic Azimuth	289 03 25
Grid Azimuth	288 34 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480012A	12/15/2000	AHTD	MONROE	146	110391

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	611,929.3559
Easting (M)	479,092.2250
Elevation (M)*	
Northing (SFT)	2,007,638.2285
Easting (SFT)	1,571,821.7415
Elevation (SFT)*	
Convergence Angle	0 28 56.8419378
Scale Factor	0.999962775
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	34	27.8747796
Longitude	91	8	16.7824932
Ellipsoid Height (M):	27.091		
Geoid Height (M):	-26.683		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 4.619 KM (2.87 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.25 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146, 4.05 METERS SOUTH OF A WEBB WIRE FENCE LINE AND 3.45 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480012A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 546.844 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	90	30.30	99.4
MK # 2				
MK # 3				

AZ Mark Station	480012
Geodetic Azimuth	109 03 13
Grid Azimuth	108 34 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480013	12/15/2000	AHTD	MONROE	146	110391

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	608,172.9299
Easting (M)	481,835.2220
Elevation (M)*	
Northing (SFT)	1,995,314.0208
Easting (SFT)	1,580,821.0575
Elevation (SFT)*	
Convergence Angle	0 29 56.3559619
Scale Factor	0.999957355
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	25.2077892
Longitude	91	6	30.4487172
Ellipsoid Height (M):	26.645		
Geoid Height (M):	-26.704		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 10.187 KM (6.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.40 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 717.408 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	130	34.30	112.5
MK # 2				
MK # 3				

AZ Mark Station	480013A
Geodetic Azimuth	91 59 55
Grid Azimuth	91 29 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480013A	12/15/2000	AHTD	MONROE	146	110391

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	608,154.1549	
Easting (M)	482,552.3510	
Elevation (M)*		
Northing (SFT)	1,995,252.4232	
Easting (SFT)	1,583,173.8382	
Elevation (SFT)*		

Convergence Angle	0	30	12.0931541
Scale Factor	0.999957320		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	24.3949200
Longitude	91	6	2.3310576
Ellipsoid Height (M):	26.292		
Geoid Height (M):	-26.708		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 10.895 KM (6.77 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.60 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "480013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 717.408 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	232	11.05	36.3
MK # 2				
MK # 3				

AZ Mark Station	480013
Geodetic Azimuth	272 00 11
Grid Azimuth	271 29 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480014	12/15/2000	AHTD	MONROE	146	110391

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	609,258.7009
Easting (M)	485,768.8060
Elevation (M)*	
Northing (SFT)	1,998,876.2545
Easting (SFT)	1,593,726.4910
Elevation (SFT)*	
Convergence Angle	0 31 22.9145075
Scale Factor	0.999958826
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	59.3050092
Longitude	91	3	55.7944632
Ellipsoid Height (M):	26.977		
Geoid Height (M):	-26.721		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 14.79 KM (9.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 50 mm CAP STAMPED " AHTD GPS 480014 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END CORRIGATED METAL PIPE	275	7.30	24.0
MK # 2				
MK # 3				

AZ Mark Station	480014A
Geodetic Azimuth	116 29 37
Grid Azimuth	115 58 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480014A	12/15/2000	AHTD	MONROE	146	110391

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	609,012.9119
Easting (M)	486,273.4040
Elevation (M)*	
Northing (SFT)	1,998,069.8618
Easting (SFT)	1,595,381.9930
Elevation (SFT)*	

Convergence Angle	0	31	33.9419691
Scale Factor			0.999958473
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	51.1786896
Longitude	91	3	36.0916848
Ellipsoid Height (M):	26.709		
Geoid Height (M):	-26.725		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 17 AND STATE HIGHWAY 146 LOCATED ABOUT 16.093 KM (10 MI) SOUTHEAST OF CLARENDON, GO EAST ON STATE HIGHWAY 146 FOR 15.337 KM (9.53 MI) TO THE STATION ON THE LEFT. THE STATION IS 5.80 METERS NORTH OF THE CENTER OF STATE HIGHWAY 146 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 50 mm CAP STAMPED " AHTD GPS 480014A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CORRIGATED METAL PIPE	101	10.60	34.8
MK # 2				
MK # 3				

AZ Mark Station	480014
Geodetic Azimuth	296 29 48
Grid Azimuth	295 58 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	540006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480015	1/8/2003	AHTD	MONROE	I 40	110131,110478

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	64,176.2910	
Easting (M)	473,986.4410	
Elevation (M)*	69.938	
Northing (SFT)	210,551.7147	
Easting (SFT)	1,555,070.5152	
Elevation (SFT)*	229.456	

Convergence Angle	0	28	15.9417379	
Scale Factor	1.000004865			
Elevation Adjust. Factor	0.9999890245			
Combined Adjust. Factor	0.9999938895			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	54	32.6011068	
Longitude	91	11	25.5056208	
Ellipsoid Height (M):	43.129			
Geoid Height (M):	-26.800			

Location Description

TO REACH THE STATION FROM I-40 EXIT 216 IN BRINKLEY, GO EAST ON I-40 FOR 0.70 MILES TO THE EAST END OF AN OVERPASS OVER THE ST. LOUIS SOUTHWESTERN RAILWAY AND THE STATION ON THE LEFT.THE STATION IS IN THE MEDIAN AT THE TOP OF THE BANK BETWEEN THE TWO BRIDGES OVER THE RAILROAD TRACK. THE STATION MARK IS A 64mm CAP STAMPED "480015 2003" SET ON TOP OF AM IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SE CORNER OF WINGWALL ON WEST LAN E BRIDGE	25	8.30	27.2
MK # 2	NE CORNER OF WINGWALL ON EAST LANE BRIDGE	160	6.59	21.6
MK # 3				

AZ Mark Station	480015A
Geodetic Azimuth	86 19 20
Grid Azimuth	85 51 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	AHTD MON1
Ref Mon # 3	MEM2 CORS

Comments

ELEVATION BY 3-WIRE BY S5103 FROM 1ST ORDER NGS MARK BRINKLEY RM 2 IN MAY 2005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480015A	1/8/2003	AHTD	MONROE	I 40	110131,110478

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	64,215.4490	
Easting (M)	474,526.2520	
Elevation (M)*	58.828	
Northing (SFT)	210,680.1856	
Easting (SFT)	1,556,841.5451	
Elevation (SFT)*	193.004	

Convergence Angle	0	28	28.3223348
Scale Factor			1.000004802
Elevation Adjust. Factor			0.9999907681
Combined Adjust. Factor			0.9999955700

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	54	33.7271940
Longitude	91	11	4.2294300
Ellipsoid Height (M):	32.028		
Geoid Height (M):	-26.797		

Location Description

TO REACH THE STATION FROM I-40 EXIT 216 IN BRINKLEY, GO EAST ON I-40 FOR 1.00 MILES TO THE STATION ON THE LEFT IN THE MEDIAN. 8.00 METERS SOUTH OF THE EDGE OF THE ASPHALT OF THE WEST BOUND LANE, 7.85 METERS NORTH OF THE EDGE OF THE ASPHALT OF THE EAST BOUND LANE, 0.75 METERS FROM THE EDGE OF THE OPENING OF A DROP INLET AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "480015A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	480015
Geodetic Azimuth	266 19 32
Grid Azimuth	265 51 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LROC
Ref Mon # 2	AHTD MON1
Ref Mon # 3	MEM2 CORS

Comments

ELEVATION BY 3-WIRE BY S5103 FROM 1ST ORDER NGS MARK BRINKLEY RM 2 IN MAY 2005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480016-1	1/8/2003	AHTD	MONROE	70	NA

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-70 AND HWY-17 SOUTH JUST SOUTHWEST OF BRINKLEY, GO WEST ON HWY-70 FOR 0.45 MILES TO THE STATION ON THE LEFT JUST WEST OF THE DRIVEWAY INTO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MONROE COUNTY HEADQUARTERS. 18.25 METERS SOUTH OF THE CENTER OF HWY-70, 8.70 METERS WEST OF THE CENTER OF THE DRIVEWAY INTO THE MONROE COUNTY HEADQUARTERS AND 2.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A 64mm CAP STAMPED "480016 2003" SET ON TOP OF A CONCRETE POST 0.85 FEET IN DIAMETER AND 3.50 FEET IN THE GROUND. THE STATION DISK IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER	180	2.70	8.9
MK # 2	POWER POLE	270	34.50	113.2
MK # 3	FLAG POLE	205	6.30	20.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480017 1	4/26/2011	AHTD	Monroe	cNeal La	110544

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	648,807.4797	0.0097
Easting (M)	480,334.4888	0.0069
Elevation (M)*		

Northing (SFT)	2,128,629.2063	
Easting (SFT)	1,575,897.4020	
Elevation (SFT)*		

Convergence Angle	0	29	31.0737433
Scale Factor			1.000034247
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid96		
Latitude	34	54	24.2329387
Longitude	91	7	15.6204866
Ellipsoid Height (M):	31.712		0.0151
Geoid Height (M):	-26.759		0.3141

Location Description

Starting at the junction of US 70 and state highway78 in Wheatly go west on US-70 .8 miles then turn left on McNeal lane and go south .1 miles to the station on the left. The Station is a standard alum. cap stamped(480017 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot west of a witness post and 35 foot east of the CL of McNeal lane.
Lat.34.5424 Lon.091.0716

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PP	20	11.58	38.0
MK # 2	36" pin oak	342	22.25	73.0
MK # 3	PP with transformer	315	27.13	89.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480017A 1	4/26/2011	AHTD	Monroe	cNeal La	110544

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	648,494.7937	0.0094
Easting (M)	480,324.9422	0.0069
Elevation (M)*		

Northing (SFT)	2,127,603.3357	
Easting (SFT)	1,575,866.0812	
Elevation (SFT)*		

Convergence Angle	0	29	30.8041052
Scale Factor	1.000033499		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid96			
Latitude	34	54	14.0895571	
Longitude	91	7	16.1022492	
Ellipsoid Height (M):	31.805			0.0542
Geoid Height (M):	-26.756			0.3141

Location Description

Starting at the junction of US-70 & AR 78 in Wheatly go west on 70 .8 miles then turn left on McNeal lane and go .3 miles to the station on the right. The station is a standard alum. cap stamped (480017A 2011) and is set on a 4 foot 5/8" rebar. It is 2 foot east of a witness post, 22 foot west of the CL of McNeal lane, and 28 foot north of CL of phillips lane. Lat.34.5414 Lon.091.0716

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	combo. pole	197	5.49	18.0
MK # 2	South East corner of a 1 story brick house	303	13.70	44.9
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480018	12/14/2015	AHTD	MONROE	79	Clarendon River Bridge Scan

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	622,724.1746	0.0020
Easting (M)	460,276.7387	0.0020
Elevation (M)*		
Northing (SFT)	2,043,054.2295	
Easting (SFT)	1,510,091.2669	
Elevation (SFT)*		

Convergence Angle	0	22	5.1955035
Scale Factor	0.999980451		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	40	22.7190972	
Longitude	91	20	32.2716552	
Ellipsoid Height (M):	28.670			0.0070
Geoid Height (M):	-26.810			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 33N, SOUTH SOUTHWEST OF CLARENDON, GO NORTH ON HIGHWAY 79 3.1 MILES TO THE MARK ON THE LEFT, NORTH 28 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITTNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480018" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	266	157.50	516.7
MK # 2				
MK # 3				

AZ Mark Station	480018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB6

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480018A	12/14/2015	AHTD	MONROE	79	Clarendon River Bridge Scan

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	623,002.3348	0.0020
Easting (M)	460,661.8245	0.0020
Elevation (M)*		
Northing (SFT)	2,043,966.8268	
Easting (SFT)	1,511,354.6692	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	40	31.6652664	
Longitude	91	20	17.0748852	
Ellipsoid Height (M):	30.720			0.0070
Geoid Height (M):	-26.811			0.0070

Convergence Angle	0	22	13.7009942
Scale Factor	0.999980935		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 33N, SOUTH SOUTHWEST OF CLARENDON, GO NORTH ON HIGHWAY 79 3.4 MILES TO THE MARK ON THE RIGHT, SOUTH SOUTHEAST 2.0 FEET OF A WITTNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480018A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	62	115.50	378.9
MK # 2				
MK # 3				

AZ Mark Station	480018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB6

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480019	12/14/2015	AHTD	MONROE	79	Clarendon River Bridge Scan

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	624,512.7369	0.0020
Easting (M)	463,170.8054	0.0020
Elevation (M)*		

Northing (SFT)	2,048,922.2043	
Easting (SFT)	1,519,586.2174	
Elevation (SFT)*		

Convergence Angle	0	23	9.0850370
Scale Factor			0.999983591
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	34	41	20.1424920	
Longitude	91	18	38.1201516	
Ellipsoid Height (M):			25.715	0.0070
Geoid Height (M):			-26.813	0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 79B, IN CLARENDON, GO SOUTH ON HIGHWAY 79 0.05 MILES TO THE MARK ON THE RIGHT, NORTH 10.6 FEET OF THE CENTERLINE OF EWAN STREET AND NORTH 38.7 FEET OF THE CENTERLINE OF STATE HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480019" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST OF EAST END OF CONCRETE CHARDRAIL	208	26.80	87.9
MK # 2	COMBINATION POLE	280	38.80	127.3
MK # 3				

AZ Mark Station	480019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB6

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480019A	12/14/2015	AHTD	MONROE	79	Clarendon River Bridge Scan

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	624,552.7680	0.0020
Easting (M)	463,723.0340	0.0020
Elevation (M)*		

Northing (SFT)	2,049,053.5397	
Easting (SFT)	1,521,397.9874	
Elevation (SFT)*		

Convergence Angle	0	23	21.2337930	
Scale Factor			0.999983656	
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	34	41	21.3203364	
Longitude	91	18	16.4139552	
Ellipsoid Height (M):			32.270	0.0070
Geoid Height (M):			-26.811	0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND STATE HIGHWAY 79B, ALSO KNOWN AS NORTH 9th STREET, IN CLARENDON, GO NORTH ON HIGHWAY 79 0.25 MILES TO THE MARK ON THE LEFT, NORTHEAST 24.4 FEET OF THE CENTERLINE OF STATE HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 480019A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	480019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB6

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480020		CLS	MONROE	70	110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	641,830.4547	0.0020
Easting (M)	469,690.5614	0.0030
Elevation (M)*	57.451	0.0012
Northing (SFT)	2,105,738.7501	
Easting (SFT)	1,540,976.4502	
Elevation (SFT)*	188.488	

Convergence Angle	0	25	35.2795799
Scale Factor	1.000018319		
Elevation Adjust. Factor	0.9999909841		
Combined Adjust. Factor	1.0000093029		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	50	40.6065840
Longitude	91	14	16.9141920
Ellipsoid Height (M):	30.568	0.0040	
Geoid Height (M):	-26.883		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO NE 0.34 MILES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North of EP HWY 70		1.31	4.3
MK # 2	EAST OF CL OF DRIVEWAY		45.72	150.0
MK # 3	SOUTH OF WITNESS POST		2.13	7.0

AZ Mark Station	480020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

Position and elevation determined by C.L.S. in April 2018 deuring job 110664, constraining elevation on Q170.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480020A		CLS	MONROE	70	110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	642,159.9091	0.0020
Easting (M)	470,076.7736	0.0020
Elevation (M)*	57.094	0.0010
Northing (SFT)	2,106,819.6351	
Easting (SFT)	1,542,243.5481	
Elevation (SFT)*	187.315	

Convergence Angle	0	25	43.8418198
Scale Factor	1.000019047		
Elevation Adjust. Factor	0.9999910402		
Combined Adjust. Factor	1.0000100871		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	50	51.2035440
Longitude	91	14	1.6160280
Ellipsoid Height (M):	30.214		0.0040
Geoid Height (M):	-26.883		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO NE 0.67 MILES.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH OF EP HWY 70		0.61	2.0
MK # 2	WEST OF DRIVE TO HOUSE #8330		10.67	35.0
MK # 3	SOUTH OF WITNESS POST		0.73	2.4

AZ Mark Station	480020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

Position and elevation determined by C.L.S. in April 2018 deuring job 110664, constraining elevation on Q170.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480021		CLS	MONROE	70	110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	641,138.6703	0.0020
Easting (M)	463,780.2894	0.0020
Elevation (M)*	54.956	0.0047
Northing (SFT)	2,103,469.1208	
Easting (SFT)	1,521,585.8328	
Elevation (SFT)*	180.301	

Convergence Angle	0	23	24.9769926
Scale Factor	1.000016879		
Elevation Adjust. Factor	0.9999913757		
Combined Adjust. Factor	1.0000082546		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	50	19.5256320
Longitude	91	18	9.7259760
Ellipsoid Height (M):	28.037		0.0070
Geoid Height (M):	-26.926		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 3.41 MILES.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH OF EP HWY 70		6.80	22.3
MK # 2	EAST OF FIELD ROAD		7.01	23.0
MK # 3	SOUTH OF WITNESS POST		2.07	6.8

AZ Mark Station	480021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

Position and elevation determined by C.L.S. in April 2018 deuring job 110664, constraining elevation on Q170.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480021A		CLS	MONROE	70	110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	641,117.5089	0.0020
Easting (M)	463,367.8311	0.0020
Elevation (M)*	54.690	0.0047
Northing (SFT)	2,103,399.6938	
Easting (SFT)	1,520,232.6259	
Elevation (SFT)*	179.427	

Convergence Angle	0	23	15.8883233
Scale Factor	1.000016838		
Elevation Adjust. Factor	0.9999914175		
Combined Adjust. Factor	1.0000082554		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	50	18.9298320
Longitude	91	18	25.9647120
Ellipsoid Height (M):	27.765	0.0060	
Geoid Height (M):	-26.929		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 3.68 MILES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH OF EP HWY 70		3.57	11.7
MK # 2	SOUTH OF WITNESS POST		1.92	6.3
MK # 3	WEST OF BRIDGE		182.88	600.0

AZ Mark Station	480021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

Position and elevation determined by C.L.S. in April 2018 deuring job 110664, constraining elevation on Q170.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480022		CLS	MONROE	70	110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	640,867.3576	0.0030
Easting (M)	459,200.5315	0.0030
Elevation (M)*	55.164	0.0060
Northing (SFT)	2,102,578.9891	
Easting (SFT)	1,506,560.4104	
Elevation (SFT)*	180.985	

Convergence Angle	0	21	44.0573134
Scale Factor	1.000016346		
Elevation Adjust. Factor	0.9999913430		
Combined Adjust. Factor	1.0000076889		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	50	11.6976120
Longitude	91	21	10.0392840
Ellipsoid Height (M):	28.235	0.0080	
Geoid Height (M):	-26.957		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 6.30 MILES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North of hwy 70 white line		6.71	22.0
MK # 2	East of CL of field road		4.27	14.0
MK # 3	Swof witness post		1.77	5.8

AZ Mark Station	480022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

Position and elevation determined by C.L.S. in April 2018 deuring job 110664, constraining elevation on Q170.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480022A		CLS	MONROE	70	110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	640,589.9125	0.0020
Easting (M)	459,293.5972	0.0020
Elevation (M)*	52.156	0.0003
Northing (SFT)	2,101,668.7379	
Easting (SFT)	1,506,865.7435	
Elevation (SFT)*	171.115	

Convergence Angle	0	21	46.0685933
Scale Factor	1.000015735		
Elevation Adjust. Factor	0.9999918151		
Combined Adjust. Factor	1.0000075500		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	50	2.6755440
Longitude	91	21	6.4457280
Ellipsoid Height (M):	25.229		0.0070
Geoid Height (M):	-26.953		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 6.30 MILES, THEN SW 0.30 MILES ON A BOAT LAUNCH ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	W OF CL OF GR ROAD		3.66	12.0
MK # 2	SOUTH OF HWY ON BOAT LAUNCH ROAD		274.32	900.0
MK # 3	NORTH OF SHARP CURVE IN GR ROAD		39.62	130.0

AZ Mark Station	480022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

Position and elevation determined by C.L.S. in April 2018 deuring job 110664, constraining elevation on Q170.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480023	4/1/2019	ARDOT	MONROE	39	110124

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	624,016.1252	0.0030
Easting (M)	482,094.3331	0.0030
Elevation (M)*		
Northing (SFT)	2,047,292.9041	
Easting (SFT)	1,581,671.1578	
Elevation (SFT)*		

Convergence Angle	0	30	5.0867753
Scale Factor	0.999982441		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	40	59.2719888
Longitude	91	6	14.8493628
Ellipsoid Height (M):	28.777	0.0120	
Geoid Height (M):	-26.746	0.0120	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 39, SOUTH OF MONROE, GO NORTH ON HIGHWAY 39 1.2 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 39.9'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 480023" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PIPE FE CORNER	0	4.42	14.5
MK # 2	WATER WELL	109	20.94	68.7
MK # 3	CP W/3 GUYS & TRANSFORMER	85	21.03	69.0

AZ Mark Station	480023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARJB
Ref Mon # 3	MSGN

Comments

GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
480023A	4/1/2019	ARDOT	MONROE	39	110124

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	624,014.9962	0.0040
Easting (M)	481,676.8742	0.0030
Elevation (M)*		
Northing (SFT)	2,047,289.2000	
Easting (SFT)	1,580,301.5448	
Elevation (SFT)*		

Convergence Angle	0	29	55.9079559	
Scale Factor	0.999982445			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	40	59.3536080	
Longitude	91	6	31.2491700	
Ellipsoid Height (M):	28.086	0.0140		
Geoid Height (M):	-26.747	0.0140		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 49 AND STATE HIGHWAY 39, SOUTH OF MONROE, GO NORTH ON HIGHWAY 39 1.2 MILES TO MEACHAM ROAD AND TURN LEFT (WEST) AND GO 0.25 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE ROAD 18.0'.AND NORTH 34.9' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 480023A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	301	27.13	89.0
MK # 2				
MK # 3				

AZ Mark Station	480023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARJB
Ref Mon # 3	MSGN

Comments

GNSS DERIVED ELEV. BASED ON ORTHOMETRIC HT. CONSTRAINTS ON CORS SITES ARJB & ARLR.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490001	4/30/2002	AHTD	MONTGOMERY	270	080237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	608,890.9919
Easting (M)	265,870.3270
Elevation (M)*	
Northing (SFT)	1,997,669.8626
Easting (SFT)	872,276.2312
Elevation (SFT)*	
Convergence Angle	0 49 4.3651618
Scale Factor	0.999957518
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	29.0071104
Longitude	93	27	40.7006532
Ellipsoid Height (M):	164.406		
Geoid Height (M):	-28.033		

Location Description

TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 3.64 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, 9.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490001 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	297	5.40	17.7
MK # 2	NORTHWEST CORNER METAL BUILDING	183	10.55	34.6
MK # 3				

AZ Mark Station	490001A
Geodetic Azimuth	91 01 34
Grid Azimuth	91 50 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490001A	4/30/2002	AHTD	MONTGOMERY	270	080237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	608,880.1379
Easting (M)	266,207.4320
Elevation (M)*	
Northing (SFT)	1,997,634.2524
Easting (SFT)	873,382.2165
Elevation (SFT)*	

Convergence Angle	0	48	56.9627651
Scale Factor	0.999957509		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	32	28.8108600	
Longitude	93	27	27.4747824	
Ellipsoid Height (M):	169.062			
Geoid Height (M):	-28.025			

Location Description

TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 3.43 MILES TO THE STATION ON THE LEFT. THE STATION IS 13.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490001A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	241	6.60	21.7
MK # 2				
MK # 3				

AZ Mark Station	490001
Geodetic Azimuth	271 01 42
Grid Azimuth	271 50 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490002	4/30/2002	AHTD	MONTGOMERY	270	080237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	608,096.7129
Easting (M)	260,596.2560
Elevation (M)*	
Northing (SFT)	1,995,063.9656
Easting (SFT)	854,972.8832
Elevation (SFT)*	
Convergence Angle	0 50 59.8643258
Scale Factor	0.999956316
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	0.7414368
Longitude	93	31	7.0631436
Ellipsoid Height (M):	164.564		
Geoid Height (M):	-28.124		

Location Description

TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 7.18 MILES TO THE STATION ON THE RIGHT. THE STATION IS 19.90 METERS WEST OF THE CENTER OF LAKE FRONT DRIVE, 12.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 9.60 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490002 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORRIGATED METAL PIPE	48	13.90	45.6
MK # 2				
MK # 3				

AZ Mark Station	490002A
Geodetic Azimuth	234 38 40
Grid Azimuth	235 29 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490002A	4/30/2002	AHTD	MONTGOMERY	270	080237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	607,843.6729
Easting (M)	260,228.1580
Elevation (M)*	
Northing (SFT)	1,994,233.7835
Easting (SFT)	853,765.2150
Elevation (SFT)*	

Convergence Angle	0	51	7.8601590
Scale Factor	0.999955963		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	31	52.3528104
Longitude	93	31	21.3493080
Ellipsoid Height (M):	155.418		
Geoid Height (M):	-28.123		

Location Description

TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 7.45 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490002A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF CONCRETE PIPE	304	7.10	23.3
MK # 2				
MK # 3				

AZ Mark Station	490002
Geodetic Azimuth	54 38 32
Grid Azimuth	55 29 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490003	4/30/2002	AHTD	MONTGOMERY	270	080237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	608,619.6859
Easting (M)	254,741.1370
Elevation (M)*	
Northing (SFT)	1,996,779.7528
Easting (SFT)	835,763.2136
Elevation (SFT)*	
Convergence Angle	0 53 8.5395538
Scale Factor	0.999956913
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	14.8338528
Longitude	93	34	56.9673228
Ellipsoid Height (M):	191.173		
Geoid Height (M):	-28.262		

Location Description

TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 10.94 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 1.20 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	490003A
Geodetic Azimuth	115 35 54
Grid Azimuth	116 29 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490003A	4/30/2002	AHTD	MONTGOMERY	270	080237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	608,368.3809
Easting (M)	255,245.5290
Elevation (M)*	
Northing (SFT)	1,995,955.2630
Easting (SFT)	837,418.0397
Elevation (SFT)*	

Convergence Angle	0	52	57.3845620
Scale Factor	0.999956578		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	6.9316440
Longitude	93	34	37.0366860
Ellipsoid Height (M):	185.122		
Geoid Height (M):	-28.242		

Location Description

TO REACH THE STATION FROM THE MONTGOMERY / GARLAND COUNTY LINE, GO WEST ON U.S. HIGHWAY 270 FOR 10.59 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.65 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490003A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	287	19.80	65.0
MK # 2	CORNER POST	193	2.15	7.1
MK # 3				

AZ Mark Station	490003
Geodetic Azimuth	295 36 05
Grid Azimuth	296 29 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490004	4/30/2002	AHTD	MONTGOMERY	270	080237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	610,972.7190	
Easting (M)	250,187.0270	
Elevation (M)*	202.086	
Northing (SFT)	2,004,499.6623	
Easting (SFT)	820,821.9377	
Elevation (SFT)*	663.010	

Convergence Angle	0	54	49.3125613
Scale Factor	0.999960124		
Elevation Adjust. Factor	0.9999682871		
Combined Adjust. Factor	0.9999284124		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	28.8680292
Longitude	93	37	57.0185724
Ellipsoid Height (M):	173.639		
Geoid Height (M):	-28.447		

Location Description

THIS STATION IS LOCATED AT THE MONTGOMERY COUNTY COURT HOUSE IN MOUNT IDA. THE STATION IS 15.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270, 2.50 METERS SOUTH OF THE BACK OF A CONCRETE CURB, 2.40 METERS WEST OF THE BACK OF A CONCRETE CURB, 1.80 METERS EAST OF THE BACK OF A CONCRETE CURB, AND THIS STATION HAS NO WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490004 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS RUN BY CREW S5102 FROM USC&GS BM E 24 PID EJ1473.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER RED BRICK BUILDIN G	168	10.05	33.0
MK # 2	METAL LIGHT POLE	211	10.20	33.5
MK # 3				

AZ Mark Station	490004A
Geodetic Azimuth	307 35 56
Grid Azimuth	308 30 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490004A	4/30/2002	AHTD	MONTGOMERY	270	080237

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	611,284.3809
Easting (M)	249,795.3890
Elevation (M)*	
Northing (SFT)	2,005,522.1730
Easting (SFT)	819,537.0387
Elevation (SFT)*	

Convergence Angle	0	54	58.0193552
Scale Factor			0.999960563
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	33	38.7782964
Longitude	93	38	12.5750112
Ellipsoid Height (M):	164.279		
Geoid Height (M):	-28.468		

Location Description

TO REACH THIS STATION FROM THE MONTGOMERY COUNTY COURT HOUSE, GO WEST ON U.S. HIGHWAY 270 FOR 0.30 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.70 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "490004A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN METAL GUARD RAIL POST	129	9.60	31.5
MK # 2	PUNCH MARK IN METAL GUARD RAIL POST	144	4.15	13.6
MK # 3	PUNCH MARK IN METAL GUARD RAIL POST	212	1.65	5.4

AZ Mark Station	490004
Geodetic Azimuth	127 35 47
Grid Azimuth	128 30 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ MK
Ref Mon # 2	AP 1970 STA A3 HOT
Ref Mon # 3	DE QUEEN CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490005	2/6/2007	AHTD	MONTGOMERY	70	080318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	586,892.0259	
Easting (M)	262,263.0070	
Elevation (M)*	182.898	
Northing (SFT)	1,925,494.9216	
Easting (SFT)	860,441.2155	
Elevation (SFT)*	600.059	

Convergence Angle	0	50	16.4787889
Scale Factor			0.999932889
Elevation Adjust. Factor			0.9999712981
Combined Adjust. Factor			0.9999041890

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	20	33.4225248	
Longitude	93	29	49.5461544	
Ellipsoid Height (M):	155.324			
Geoid Height (M):	-27.575			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 70B, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 2.4 MILES TO THE STATION MARK ON THE LEFT, EAST 115.2 FEET OF A DRIVEWAY, NORTHWEST 70.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 4.60 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490005 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RIGHT OF WAY MONUMENT	346	1.65	5.4
MK # 2	10" FORKED OAK TREE	61	6.40	21.0
MK # 3				

AZ Mark Station	550008
Geodetic Azimuth	241 58 04
Grid Azimuth	242 48 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	DQUA

Comments

3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490006	2/6/2007	AHTD	MONTGOMERY	70	080318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	590,089.3758
Easting (M)	269,928.3940
Elevation (M)*	184.913
Northing (SFT)	1,935,984.8938
Easting (SFT)	885,590.0726
Elevation (SFT)*	606.667

Convergence Angle	0	47	29.5939651
Scale Factor			0.999935815
Elevation Adjust. Factor			0.9999709820
Combined Adjust. Factor			0.9999067989

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	22	20.7207120	
Longitude	93	24	51.3728460	
Ellipsoid Height (M):	157.382			
Geoid Height (M):	-27.520			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 1.9 MILES TO THE STATION MARK ON THE LEFT, EAST 32.2 FEET OF A DRIVEWAY, NORTH 47.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 3.60 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490006 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE PEDESTAL	270	19.18	62.9
MK # 2	WOOD FENCE POST		4.88	16.0
MK # 3				

AZ Mark Station	490006A
Geodetic Azimuth	91 02 43
Grid Azimuth	91 50 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	DQUA

Comments

3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490006A	2/6/2007	AHTD	MONTGOMERY	70	080318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	590,073.4759	
Easting (M)	270,424.1710	
Elevation (M)*	181.820	
Northing (SFT)	1,935,932.7288	
Easting (SFT)	887,216.6344	
Elevation (SFT)*	596.522	

Convergence Angle	0	47	18.7291190
Scale Factor	0.999935806		
Elevation Adjust. Factor	0.9999714673		
Combined Adjust. Factor	0.9999072751		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	22	20.4265884
Longitude	93	24	31.9606128
Ellipsoid Height (M):	154.290		
Geoid Height (M):	-27.512		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 2.2 MILES TO THE STATION MARK ON THE RIGHT, WEST 18.0 FEET OF AN ASPHALT DRIVEWAY, SOUTH 55.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490006A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD GATE POST	99	0.33	1.1
MK # 2	SOUTHEAST CORNER BRIDGE	281	26.09	85.6
MK # 3	EAST END GUARD RAIL	330	9.85	32.3

AZ Mark Station	490006
Geodetic Azimuth	271 02 54
Grid Azimuth	271 50 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	DQUA

Comments

3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490007	5/1/2007	AHTD	MONTGOMERY	70	080318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	589,352.7539
Easting (M)	266,804.1810
Elevation (M)*	195.901
Northing (SFT)	1,933,568.1601
Easting (SFT)	875,340.0505
Elevation (SFT)*	642.720

Convergence Angle	0	48	37.8015756
Scale Factor			0.999935100
Elevation Adjust. Factor			0.9999692576
Combined Adjust. Factor			0.9999043596

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	21	55.3982436
Longitude	93	26	53.2394628
Ellipsoid Height (M):	168.340		
Geoid Height (M):	-27.554		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO WEST ON HIGHWAY 70 FOR 239 FEET TO THE STATION MARK ON THE RIGHT, WEST OF A GRAVEL DRIVEWAY 61.6 FEET, NORTH 34.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490007 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	60	23.41	76.8
MK # 2	POWER POLE	241	3.05	10.0
MK # 3	TELEPHONE BOX	276	3.60	11.8

AZ Mark Station	490007A
Geodetic Azimuth	243 29 47
Grid Azimuth	244 18 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	490006, 490006A
Ref Mon # 2	550008
Ref Mon # 3	490005

Comments

3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490007A	5/1/2007	AHTD	MONTGOMERY	70	080318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	589,079.2388	
Easting (M)	266,235.6810	
Elevation (M)*	196.437	
Northing (SFT)	1,932,670.8026	
Easting (SFT)	873,474.8967	
Elevation (SFT)*	644.476	

Convergence Angle	0	48	50.1684128
Scale Factor			0.999934846
Elevation Adjust. Factor			0.9999691736
Combined Adjust. Factor			0.9999040216

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	21	46.2605724
Longitude	93	27	15.3353052
Ellipsoid Height (M):	168.876		
Geoid Height (M):	-27.557		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 182, EAST OF GLENWOOD, GO WEST ON HIGHWAY 70 FOR 0.40 MILES TO THE STATION MARK ON THE LEFT, SOUTHEAST 37.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 1.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "490007A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	490007
Geodetic Azimuth	63 29 35
Grid Azimuth	64 18 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	490006, 490006A
Ref Mon # 2	550008
Ref Mon # 3	490005

Comments

3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490008	3/11/2008	AHTD	MONTGOMERY	270	080310

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	625,563.3389
Easting (M)	233,130.7760
Elevation (M)*	
Northing (SFT)	2,052,369.0544
Easting (SFT)	764,863.2209
Elevation (SFT)*	
Convergence Angle	-1 1 9.4253573
Scale Factor	0.999983194
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	41	12.9700572
Longitude	93	49	16.1665464
Ellipsoid Height (M):	266.367		
Geoid Height (M):	-29.371		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 6.60 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.6 FEET OF THE CENTER OF THE HIGHWAY AND SOUTH 43.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490008 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER BOX CULVERT	104	38.41	126.0
MK # 2	14" OAKTREE	005	23.17	76.0
MK # 3				

AZ Mark Station	490008A
Geodetic Azimuth	271 48 10
Grid Azimuth	272 49 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	Q 299
Ref Mon # 3	MENAPORT AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490008A	3/11/2008	AHTD	MONTGOMERY	270	080310

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	625,589.1699
Easting (M)	232,606.7510
Elevation (M)*	
Northing (SFT)	2,052,453.8016
Easting (SFT)	763,143.9822
Elevation (SFT)*	
Convergence Angle	-1 1 20.9562705
Scale Factor	0.999983224
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 41 13.5052044
Longitude	93 49 36.7688424
Ellipsoid Height (M):	269.504
Geoid Height (M):	-29.384

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 6.90 MILES TO THE STATION MARK ON THE RIGHT, NORTH 27.5 FEET OF THE CENTER OF THE HIGHWAY, 13.0 FEET EAST OF A FOREST SERVICE ROAD AND SOUTH 25.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490008A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	15" CONCRETE CULVERT	274	28.04	92.0
MK # 2	18" PINE TREE	245	22.49	73.8
MK # 3	15" OAK TREE	306	14.17	46.5

AZ Mark Station	490009
Geodetic Azimuth	91 47 58
Grid Azimuth	92 49 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	Q 299
Ref Mon # 3	MENAPORT AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490009	3/11/2008	AHTD	MONTGOMERY	270	080310

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	622,837.5990
Easting (M)	237,642.6610
Elevation (M)*	
Northing (SFT)	2,043,426.3561
Easting (SFT)	779,665.9636
Elevation (SFT)*	
Convergence Angle	0 59 29.1928028
Scale Factor	0.999978543
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 39 47.0966076
Longitude	93 46 17.0809248
Ellipsoid Height (M):	253.164
Geoid Height (M):	-29.182

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 2.8 MILES TO THE STATION MARK ON THE LEFT, SOUTH 33.0 FEET OF THE CENTER OF THE HIGHWAY, 22.0 FEET SOUTHEAST OF THE CENTER OF A DRIVEWAY AND NORTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490009 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	130	20.73	68.0
MK # 2	COMBINATION POLE	324	27.13	89.0
MK # 3	14" PLASTIC PIPE END	228	10.21	33.5

AZ Mark Station	490008A
Geodetic Azimuth	135 13 03
Grid Azimuth	136 12 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	Q 299
Ref Mon # 3	MENAPORT AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490009A	3/11/2008	AHTD	MONTGOMERY	270	080310

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	622,603.4639
Easting (M)	237,867.1200
Elevation (M)*	
Northing (SFT)	2,042,658.1978
Easting (SFT)	780,402.3762
Elevation (SFT)*	
Convergence Angle	0 59 24.1704464
Scale Factor	0.999978146
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 39 39.6254700
Longitude	93 46 8.1074748
Ellipsoid Height (M):	246.146
Geoid Height (M):	-29.170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 270 WEST AND STATE HIGHWAY 88 NORTH, AT PENCIL BLUFF, GO WEST ON HIGHWAY 270 FOR 2.6 MILES TO THE STATION MARK ON THE LEFT, SOUTH 51.7 FEET OF THE CENTER OF THE HIGHWAY, 21.0 FEET EAST OF THE CENTER OF VINCENT ROAD (GRAVEL) AND WEST 4.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "490009A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOOD FENCE CORNER	303	14.63	48.0
MK # 2	24" CONCRETE CULVERT	314	10.70	35.1
MK # 3	TELEPHONE RISER	32	1.34	4.4

AZ Mark Station	490008
Geodetic Azimuth	315 13 08
Grid Azimuth	316 12 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	Q 299
Ref Mon # 3	MENAPORT AZ

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490010	7/20/2010	AHTD	Montgomery	27	080379

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,645.9049	
Easting (M)	258,111.1210	
Elevation (M)*	182.215	
Northing (SFT)	2,026,393.2730	
Easting (SFT)	846,819.5695	
Elevation (SFT)*	597.816	

Convergence Angle	0	51	57.5717241
Scale Factor	0.999970454		
Elevation Adjust. Factor	0.9999714054		
Combined Adjust. Factor	0.9999418603		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	37	9.4014624
Longitude	93	32	50.1690192
Ellipsoid Height (M):	153.662		
Geoid Height (M):	-28.519		

Location Description

To reach the station from the junction of highways 270 and 27 on the west side of Mt. Ida go north on hwy-27 for 7.70 miles to the station on the right. 180 feet north of the center of "Fishing village road", 39.0 feet east of the center of hwy-27 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "D490010 2010" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.10 feet below the surface. The "D" denotes that this is a duplicate point number.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone box	169	46.63	153.0
MK # 2	18 inch metal culvert	175	51.82	170.0
MK # 3				

AZ Mark Station	D490010A
Geodetic Azimuth	206 19 32
Grid Azimuth	207 11 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490010A	7/20/2010	AHTD	Montgomery	27	080379

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	617,296.8670
Easting (M)	257,931.8030
Elevation (M)*	187.798
Northing (SFT)	2,025,248.1378
Easting (SFT)	846,231.2570
Elevation (SFT)*	616.135
Convergence Angle	0 52 1.3950377
Scale Factor	0.999969891
Elevation Adjust. Factor	0.9999705292
Combined Adjust. Factor	0.9999404211

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 36 57.9874860
Longitude	93 32 57.0001380
Ellipsoid Height (M):	159.256
Geoid Height (M):	-28.509

Location Description

To reach the station from the junction of highways 270 and 27 on the west side of Mt. Ida go north on hwy-27 for 7.40 miles to the station on the right at the corner of hwy-27 and "Freedon road". 33.0 feet south of the center of Freedom road, 31.0 feet east of the center of hwy-27 and 1.70 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "D490010A 2010" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.10 feet below the surface. The "D" denotes that this is a duplicate point number.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	37	47.55	156.0
MK # 2	Power pole	210	43.89	144.0
MK # 3				

AZ Mark Station	D490010
Geodetic Azimuth	26 19 29
Grid Azimuth	27 11 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490011	7/20/2010	AHTD	Montgomery	27	080379

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	621,100.1609	
Easting (M)	259,481.6080	
Elevation (M)*	183.595	
Northing (SFT)	2,037,726.1112	
Easting (SFT)	851,315.9089	
Elevation (SFT)*	602.346	

Convergence Angle	0	51	28.6003969
Scale Factor			0.999976178
Elevation Adjust. Factor			0.9999711887
Combined Adjust. Factor			0.9999473674

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	39	2.1575196
Longitude	93	31	58.4059152
Ellipsoid Height (M):	154.956		
Geoid Height (M):	-28.601		

Location Description

To reach the station from the junction of highways 270 and 27 on the west side of Mt. Ida go north on hwy-27 for 10.2 miles to the station on the right just south of the bridge over Lake Ouachita and about 5 feet above the road surface. 30.00 feet east of the center of hwy-27 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "490011 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.10 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northeast corner of a bridge	352	36.19	118.7
MK # 2	Power pole	115	14.02	46.0
MK # 3				

AZ Mark Station	490011A
Geodetic Azimuth	199 26 45
Grid Azimuth	200 18 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490011A	7/20/2010	AHTD	Montgomery	27	080379

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	620,655.0339	
Easting (M)	259,316.9180	
Elevation (M)*	188.408	
Northing (SFT)	2,036,265.7237	
Easting (SFT)	850,775.5885	
Elevation (SFT)*	618.135	

Convergence Angle	0	51	32.0730900
Scale Factor	0.999975424		
Elevation Adjust. Factor	0.9999704335		
Combined Adjust. Factor	0.9999458583		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	38	47.6336004
Longitude	93	32	4.6105800
Ellipsoid Height (M):	159.784		
Geoid Height (M):	-28.591		

Location Description

To reach the station from the junction of highways 270 and 27 on the west side of Mt. Ida go north on hwy-27 for 9.90 miles to the station on the right. 37.00 feet east of the center of hwy-27, 18.0 feet north of the center of a gravel drive and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "490011A 2010" set on top of a 5/8 inch by 1.20 foot long rebar and is 0.10 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone box	250	30.78	101.0
MK # 2				
MK # 3				

AZ Mark Station	490011
Geodetic Azimuth	19 26 42
Grid Azimuth	20 18 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

Elevations were est. by digital levels ran by crew S5110 in Aug. 2010 from TBM 901 in Job 080397. The elevation for TBM 901 was est. during a Static survey session utilizing NGS mark E 24 in Job 080379.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490021	12/14/2015	AHTD	MONTGOMERY	88	B230

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,978.7706	0.0036
Easting (M)	237,112.2087	0.0029
Elevation (M)*	231.092	0.0030
Northing (SFT)	2,027,485.3499	
Easting (SFT)	777,925.6380	
Elevation (SFT)*	758.175	

Convergence Angle	0	59	38.9984956
Scale Factor	0.999970441		
Elevation Adjust. Factor	0.9999637354		
Combined Adjust. Factor	0.9999341775		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	34	37	9.1406244
Longitude	93	46	34.6007676
Ellipsoid Height (M):	201.951		0.0106
Geoid Height (M):	-29.145		

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 88 AND HWY. 379 IN ODEN. GO EAST ON HWY. 88 FOR 0.05 MILES TO THE STATION ON THE LEFT. THE STATION IS 3 FT. NORTH OF A WITNESS POST, AND 35 FT. NORTH OF THE CENTERLINE OF HWY. 88. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "490021 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	260	15.10	49.5
MK # 2	36" OAK TREE	11	30.00	98.4
MK # 3	SOUTHWEST CORNER OF WOODEN FENCE	62	25.40	83.3

AZ Mark Station	490021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	OKHV

Comments

Three wire levels ran by S5102 in December, 2015 through NGS mon. W 134

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490021A	12/14/2015	AHTD	MONTGOMERY	88	B230

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,879.1366	0.0032
Easting (M)	237,696.7006	0.0027
Elevation (M)*	220.795	0.0010
Northing (SFT)	2,027,158.4673	
Easting (SFT)	779,843.2586	
Elevation (SFT)*	724.391	

Convergence Angle	0	59	26.1206590
Scale Factor	0.999970297		
Elevation Adjust. Factor	0.9999653513		
Combined Adjust. Factor	0.9999356493		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	34	37	6.2362308
Longitude	93	46	11.5919220
Ellipsoid Height (M):	191.671	0.0101	
Geoid Height (M):	-29.129		

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 88 AND HWY. 379 IN ODEN. GO EAST ON HWY. 88 FOR 0.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5 FT. NORTH OF A WITNESS POST, 46.5 FT. SOUTH OF THE CENTERLINE OF HWY. 88, AND 191 FT. EAST OF THE SOUTHEAST CORNER OF SOUTH HEADWALL. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "490021A 2015" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WESTERN POST OF "H" BRACE	215	2.00	6.6
MK # 2				
MK # 3				

AZ Mark Station	490021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	OKHV

Comments

Three wire levels ran by S5102 in December, 2015 through NGS mon. W 134

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490022	9/19/2017	AHTD	MONTGOMERY	8	080503

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	593,893.8876	0.0030
Easting (M)	250,723.3714	0.0030
Elevation (M)*	192.353	0.0006
Northing (SFT)	1,948,466.8629	
Easting (SFT)	822,581.5943	
Elevation (SFT)*	631.077	

Convergence Angle	0	54	31.5913144
Scale Factor	0.999939226		
Elevation Adjust. Factor	0.9999698145		
Combined Adjust. Factor	0.9999090423		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	24	14.9346720	
Longitude	93	37	25.3560000	
Ellipsoid Height (M):	164.303			0.0100
Geoid Height (M):	-28.000			

Location Description

To reach the station from the junction of Hwy 8 and Hwy 27 in Norman Ar., Go South East on Hwy 8 for 5.5 miles to the station on the Left. The station is 23.3' NE of the center of Hwy 8. The station mark is a 2" aluminum cap stamped 490022 on top of a 5/8" rebar driven .3' under the surface of the soil.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FOC utility marker	271	25.91	85.0
MK # 2	FOC utility marker	212	32.31	106.0
MK # 3				

AZ Mark Station	490022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	ARLR

Comments

Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490022A	9/19/2017	AHTD	MONTGOMERY	8	080503

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	594,301.9306	0.0030
Easting (M)	250,496.3887	0.0030
Elevation (M)*	192.925	0.0008
Northing (SFT)	1,949,805.5840	
Easting (SFT)	821,836.9019	
Elevation (SFT)*	632.955	

Convergence Angle	0	54	36.7071515
Scale Factor	0.999939638		
Elevation Adjust. Factor	0.9999697247		
Combined Adjust. Factor	0.9999093645		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	24	28.0590840
Longitude	93	37	34.4964720
Ellipsoid Height (M):	164.532		0.0100
Geoid Height (M):	-28.015		

Location Description

To reach the station from the junction of Hwy 8 and Hwy 27 in Norman Ar., Go South East on Hwy 8 for 5.2 miles to the station on the Left. The station is 29.6' NE of the center of Hwy 8. The station mark is a 2" aluminum cap stamped 490022A on top of a 5/8" rebar driven .3' under the surface of the soil.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Gas meter	232	11.58	38.0
MK # 2	Gas meter	166	23.47	77.0
MK # 3	10"x18" CMP SE end	233	9.54	31.3

AZ Mark Station	490022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	ARLR

Comments

Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490023	9/19/2017	AHTD	MONTGOMERY	8	080503

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	598,037.4416	0.0030
Easting (M)	248,441.9625	0.0040
Elevation (M)*	215.983	0.0018
Northing (SFT)	1,962,061.1730	
Easting (SFT)	815,096.6720	
Elevation (SFT)*	708.605	

Convergence Angle	0	55	23.0456718
Scale Factor	0.999943595		
Elevation Adjust. Factor	0.9999661063		
Combined Adjust. Factor	0.9999097033		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	26	28.2120720
Longitude	93	38	57.2895600
Ellipsoid Height (M):	187.825		0.0100
Geoid Height (M):	-28.150		

Location Description

To reach the station from the junction of Hwy 8 and Hwy 27 in Norman Ar., Go South East on Hwy 8 for 2.3 miles to the station on the Right. The station is 42' SSW of the center of Hwy 8 and 3.0 NNE of a witness post. The station mark is a 2" aluminunum cap stamped 490023A 2017 set on top of a 5/8" rebardriven .3' under the surface of the soil.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	304	30.48	100.0
MK # 2	Power Pole	120	12.71	41.7
MK # 3	24" RCP SE end	124	44.29	145.3

AZ Mark Station	490023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	ARLR

Comments

Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
490023A	9/19/2017	AHTD	MONTGOMERY	8	080503

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	598,281.5349	0.0030
Easting (M)	248,053.7385	0.0030
Elevation (M)*	212.228	0.0018
Northing (SFT)	1,962,862.0024	
Easting (SFT)	813,822.9737	
Elevation (SFT)*	696.285	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	26	35.9297520	
Longitude	93	39	12.6500400	
Ellipsoid Height (M):	184.055			0.0100
Geoid Height (M):	-28.163			

Convergence Angle	0	55	31.6427894
Scale Factor	0.999943861		
Elevation Adjust. Factor	0.9999666956		
Combined Adjust. Factor	0.9999105585		

Location Description

To reach the station from the junction of Hwy 8 and Hwy 27 in Norman Ar., Go South East on Hwy 8 for 2.0 miles to the station on the Right. The station is 33.9' SW of the center of Hwy 8 and 3.1 NE of a witness post. The station mark is a 2" aluminunum cap stamped 490023A 2017 set on top of a 5/8" rebar 4' long driven .3' under the surface of the soil.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Gas meter	181	32.00	105.0
MK # 2	Water meter	115	24.32	79.8
MK # 3				

AZ Mark Station	490023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	ARLR

Comments

Position derived by static GPS constraining the elevation at NGS BM B24. Elevation by digital levels holding NGS BM Y23. GPS and levels performed by crew S5102 during job 050503 during Sept. 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500001	7/14/2004	AHTD	NEVADA	67N	R30026, 030377

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	526,860.4912	
Easting (M)	272,204.2240	
Elevation (M)*	99.530	
Northing (SFT)	1,728,541.4615	
Easting (SFT)	893,056.6916	
Elevation (SFT)*	326.540	

Convergence Angle	0	46	21.0658305
Scale Factor	0.999926602		
Elevation Adjust. Factor	0.9999843808		
Combined Adjust. Factor	0.9999109840		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	48	9.6899328
Longitude	93	22	48.9335484
Ellipsoid Height (M):	76.768		
Geoid Height (M):	-26.724		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 iAND 371, IN PRESCOTT, GO NORTH ON HIGHWAY 67 64.40 METERS TO THEi STATION ON THE RIGHT, 7.50 METERS SOUTHEAST OF THE SOUTHEAST iEND OF A BRICK SIGN, SOUTHEAST 28.30 METERS OF THE CENTERLLINE iOF THE HIGHWAY, 7.40 METERS NORTHWEST OF THE CENTERLINE OF THE iRAILROAD, AND SOUTHEAST 6.40 METERS OF A WITNESS POST. THE iSTATION MARK IS A STANDARD 64mm CAP STAMPED "500001 2004" ON TOP iOF A 1.22 IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	262	7.40	24.3
MK # 2	LIGHT POLE	289	16.15	53.0
MK # 3				

AZ Mark Station	500001A
Geodetic Azimuth	48 22 19
Grid Azimuth	49 08 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE, DQUA
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	S 197

Comments

3-Wire levels ran by crew S5111 on Job R30026 in December of 2005 from 2nd order NGS marks 318 and Prescott.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500001A	7/14/2004	AHTD	NEVADA	67	R30026

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	527,233.8171	
Easting (M)	272,635.8770	
Elevation (M)*	95.805	
Northing (SFT)	1,729,766.2816	
Easting (SFT)	894,472.8731	
Elevation (SFT)*	314.320	

Convergence Angle	0	46	11.7825836
Scale Factor	0.999926364		
Elevation Adjust. Factor	0.9999849653		
Combined Adjust. Factor	0.9999113304		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	48	21.9950388
Longitude	93	22	32.3471604
Ellipsoid Height (M):	69.042		
Geoid Height (M):	-26.721		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 iAND 371, IN PRESCOTT, GO SOUTH ON HIGHWAY 371 ONE BLOCK, THE iFIRST STREET ON THE LEFT AFTER CROSSING THE RAILROAD TRACKS, (iEAST 1st STREET) AND TURN LEFT, AND GO 3 1/2 BLOCKS, (0.375 iMILES) TO THE STATION ON THE LEFT, NORTHWEST 10.90 METERS OF iTHE CENTERLINE OF EAST 1st STREET, AND SOUTHEAST 0.50 METERS OF Ai WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED i"500001A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH iTHE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANDT	84	28.95	95.0
MK # 2	COMBINATION POLE WITH GUY	190	29.20	95.8
MK # 3	RAIL ROAD SWITCH BOX	258	27.90	91.5

AZ Mark Station	500001
Geodetic Azimuth	228 22 28
Grid Azimuth	229 08 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HOPE, DQUA
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	S 197

Comments

3-Wire levels ran by crew S5111 on Job R30026 in December of 2005 from 2nd order NGS marks 318 and Prescott.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500002	7/14/2004	AHTD	NEVADA	24	R30011

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	523,685.0472	
Easting (M)	291,984.4390	
Elevation (M)*	56.074	
Northing (SFT)	1,718,123.3590	
Easting (SFT)	957,952.2803	
Elevation (SFT)*	183.969	

Convergence Angle	0	39	9.8662348
Scale Factor			0.999928561
Elevation Adjust. Factor			0.9999912003
Combined Adjust. Factor			0.9999197619

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	46	34.6127124	
Longitude	93	9	58.5087300	
Ellipsoid Height (M):	29.532			
Geoid Height (M):	-26.506			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24 AND i53, SOUTH OF PRESCOTT, GO EAST ON HIGHWAY 24 0.35 MILES TO THE iSTATION MARK ON THE RIGHT, 13.40 METERS WEST OF THE CENTERLINE iOF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST. THE iSTATION MARK IS A STANDARD 64mm CAP STAMPED "500002 2004" ON TOP iOF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROIUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	345	14.80	48.6
MK # 2				
MK # 3				

AZ Mark Station	500002A
Geodetic Azimuth	351 34 14
Grid Azimuth	352 13 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	AHTD HOPE, LROC
Ref Mon # 3	DQUA

Comments

3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011on Feb 2005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500002A	7/14/2004	AHTD	NEVADA	24	R30011

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	524,268.5952	
Easting (M)	291,904.7450	
Elevation (M)*	55.732	
Northing (SFT)	1,720,037.8828	
Easting (SFT)	957,690.8176	
Elevation (SFT)*	182.849	

Convergence Angle	0	39	11.7445563
Scale Factor	0.999928155		
Elevation Adjust. Factor	0.9999912539		
Combined Adjust. Factor	0.9999194095		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	46	53.5231632
Longitude	93	10	1.8647292
Ellipsoid Height (M):	29.189		
Geoid Height (M):	-26.509		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 53 AND i24, SOUTH OF PRESCOTT, GO EAST ON HIGHWAY 24 FOR 26.10 METERS TOi THE STATION ON THE LEFT, EAST 11.0 METERS OF THE CENTERLINE OF iTHE HIGHWAY AND WEST 0.50 METERS OF A WITNESS POST. THE STATION iMARK IS A STANDARD 64mm CAP STAMPED "500002A 2004" ON TOP OF A i1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	147	4.80	15.7
MK # 2	FENCE CORNER	347	6.40	21.0
MK # 3				

AZ Mark Station	500002
Geodetic Azimuth	171 34 12
Grid Azimuth	17 13 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	AHTD HOPE, LROC
Ref Mon # 3	DQUA

Comments

3-wire Elevations were ran by S5104 from NGS V 192 X in Job# R30011on Feb 2005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500003	11/4/2005	AHTD	NEVADA	24	030323

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	524,188.3471	
Easting (M)	285,344.9580	
Elevation (M)*	59.452	
Northing (SFT)	1,719,774.6021	
Easting (SFT)	936,169.2497	
Elevation (SFT)*	195.052	

Convergence Angle	0	41	34.4261205
Scale Factor	0.999928263		
Elevation Adjust. Factor	0.9999906701		
Combined Adjust. Factor	0.9999189338		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	46	48.4173732
Longitude	93	14	16.7940456
Ellipsoid Height (M):	32.879		
Geoid Height (M):	-26.573		

Location Description

To reach the station from the junction of highways 53 and 24 south of Gurdon go west on Hwy-24 for 4.70 mi. to the station on the right just past a bridge over Terra Rouge creek and set between the roadway and an asphalt drive that goes beside and then under the bridge. 10.60 meters from the center of the asphalt drive, 7.40 meters North of the center of Hwy-24 and 6.00 meters south of a witness post. The station mark is a standard 64mm cap stamped "500003 2004"set on top of an iron rod 1.22 meters long and just below the grounds surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	500003A
Geodetic Azimuth	289 27 34
Grid Azimuth	290 09 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC
Ref Mon # 2	Hopeport
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500003A	11/4/2005	AHTD	NEVADA	24	030323

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	524,448.0761
Easting (M)	284,637.2250
Elevation (M)*	60.371
Northing (SFT)	1,720,626.7297
Easting (SFT)	933,847.2957
Elevation (SFT)*	198.067

Convergence Angle	0	41	49.8907449
Scale Factor			0.999928090
Elevation Adjust. Factor			0.9999905259
Combined Adjust. Factor			0.9999186166

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	46	56.5685328	
Longitude	93	14	44.4247080	
Ellipsoid Height (M):	33.790			
Geoid Height (M):	-26.582			

Location Description

To reach the station from the junction of highways 53 and 24 south of Gurdon go West on Hwy-24 for 5.11 mi. to the station on the left outside of a curve to the right and near a paved driveway. 10.60 meters Southwest of the center of Hwy-24, 2.80 meters South southwest of the paved drive and 0.50 meters Southeast of a witness post. The station mark is a standard 64mm cap stamped "500003A 2004" set on top of an iron rod 1.22 meters long and is just below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South end of a culvert	215	7.20	23.6
MK # 2				
MK # 3				

AZ Mark Station	500003
Geodetic Azimuth	109 27 19
Grid Azimuth	110 09 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC
Ref Mon # 2	Hopeport
Ref Mon # 3	S 197

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500004	1/5/2010	AHTD	NEVADA	32	030BR1

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	499,915.6592
Easting (M)	266,490.7460
Elevation (M)*	87.438
Northing (SFT)	1,640,139.9586
Easting (SFT)	874,311.7225
Elevation (SFT)*	286.870

Convergence Angle	0	48	17.1498818
Scale Factor			0.999952662
Elevation Adjust. Factor			0.9999862783
Combined Adjust. Factor			0.9999389410

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	33	32.6228292	
Longitude	93	26	16.3410576	
Ellipsoid Height (M):	60.759			
Geoid Height (M):	-26.679			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 32, SOUTHWEST OF BODCAW, GO WEST ON 32 FOR 1.7 MILES TO THE STATION MARK ON THE RIGHT, 4.5 FEET EAST OF THE CENTERLINE OF A GRAVEL FIELD ROAD, NORTH 23.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 32.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500004 2010" ON TOP OF A 4.0 FOOT REBBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	83	20.51	67.3
MK # 2	TELEPHONE RISER	15	9.63	31.6
MK # 3				

AZ Mark Station	50004A
Geodetic Azimuth	114 30 36
Grid Azimuth	115 18 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP, ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	290020

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500004A	1/5/2010	AHTD	NEVADA	32	030BR1

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	499,596.1362
Easting (M)	267,166.2490
Elevation (M)*	88.511
Northing (SFT)	1,639,091.6568
Easting (SFT)	876,527.9353
Elevation (SFT)*	290.390

Convergence Angle	0	48	2.3965002
Scale Factor			0.999953065
Elevation Adjust. Factor			0.9999861099
Combined Adjust. Factor			0.9999391756

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	33	22.5596304	
Longitude	93	25	49.9811736	
Ellipsoid Height (M):	61.840			
Geoid Height (M):	-26.671			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 53 AND STATE HIGHWAY 32, SOUTHWEST OF BODCAW, GO WEST ON 32 FOR 1.3 MILES TO THE STATION MARK ON THE RIGHT, NORTH 18.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 23.1 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500004A 2010" ON TOP OF A 4.0 FOOT REBBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SERVICE POLE WW/ GUY	236	23.47	77.0
MK # 2	TELEPHONE BOX	138	108.60	356.3
MK # 3				

AZ Mark Station	500004
Geodetic Azimuth	294 30 51
Grid Azimuth	295 18 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP, ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	290020

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500005	3/1/2011	AHTD	NEVADA	371	030394

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	494,648.6842
Easting (M)	279,473.6890
Elevation (M)*	105.914
Northing (SFT)	1,622,859.8914
Easting (SFT)	916,906.5947
Elevation (SFT)*	347.487
Convergence Angle	0 43 34.0035497
Scale Factor	0.999959580
Elevation Adjust. Factor	0.9999833789
Combined Adjust. Factor	0.9999429595

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 30 47.3069952
Longitude	93 17 50.4431772
Ellipsoid Height (M):	78.775
Geoid Height (M):	-26.530

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 371 AND ARKANSAS STATE HIGHWAY 32 IN WILLISVILLE, GO SOUTH ON HIGHWAY 371 0.25 MILES TO THE MARK ON THE RIGHT, WEST OF THE CENTERLINE OF HIGHWAY 371 33.5 FEET, NORTH OF THE CENTERLINE OF A GRAVEL DRIVE 56.1 FEET. THE STATION MARK IS A STANDARD2 1/2 INCH CAP STAMPED "500005 2011" ON TOP OF A 2 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND .

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CP WITH LIGHT	168	7.80	25.6
MK # 2	FH	324	15.48	50.8
MK # 3				

AZ Mark Station	17 EV 1973
Geodetic Azimuth	339 24 39
Grid Azimuth	340 08 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	290020

Comments

DIGITAL LEVELS FROM THIRD ORDER BENCH MARK 17 EV 1973 BY S5112 ON 3/3/2011.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500006	6/21/2011	AHTD	Nevada	ighway 3	BR5006

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	488,921.2182	0.0066
Easting (M)	271,092.9928	0.0060
Elevation (M)*		

Northing (SFT)	1,604,069.0300	
Easting (SFT)	889,410.9272	
Elevation (SFT)*		

Convergence Angle	0	46	34.0620121
Scale Factor	0.999968290		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid96		
Latitude	33	27	37.8490605
Longitude	93	23	12.1538412
Ellipsoid Height (M):	69.158		0.0151
Geoid Height (M):	-26.586		0.3195

Location Description

To reach the station from the intersection of Highway 53 and Highway 355, in Falcon, go east on Highway 355 for 1.6 miles to the station on the right, 28 feet south of the centerline of highway 355 and 2 feet north of a witness post. The station is a standard 2 1/2" AHTD cap stamped "2011 500006", set on top of a 4 foot rebar and driven 0.2 inches below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	telephone box	171	0.91	3.0
MK # 2	36" RCP	87	11.89	39.0
MK # 3	36" plastic pipe culvert	292	18.29	60.0

AZ Mark Station	500006A
Geodetic Azimuth	26 18 32
Grid Azimuth	27 05 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	SHRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500006A	6/21/2011	AHTD	Nevada	CR 7	BR5006

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	489,334.5858	0.0062
Easting (M)	271,304.3873	0.0063
Elevation (M)*		

Northing (SFT)	1,605,425.2202	
Easting (SFT)	890,104.4773	
Elevation (SFT)*		

Convergence Angle	0	46	29.6017586
Scale Factor	0.999967641		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid96			
Latitude	33	27	51.3581975	
Longitude	93	23	4.1847010	
Ellipsoid Height (M):	69.290			0.0153
Geoid Height (M):	-26.575			0.3195

Location Description

to reach the station from the intersection of highway 355 and county road 7, go north on county road 7 for 0.3 miles to the station on the right, 33 feet east of the centerline of county road 7 and 2 feet west of a witness post. The station is a standard 2 1/2" AHTD cap stamped "2011 500006A". set on top of a 4 foot rebar and driven 0.2 inches below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	telephone box	25	5.33	17.5
MK # 2	service pole	159	15.54	51.0
MK # 3	combination pole	82	24.38	80.0

AZ Mark Station	
Geodetic Azimuth	206 18 36
Grid Azimuth	207 05 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	SHRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500007	7/1/2014	AHTD	NEVADA	CR 37	BR5007

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	533,663.7312	0.0040
Easting (M)	273,064.9500	0.0040
Elevation (M)*		
Northing (SFT)	1,750,861.7581	
Easting (SFT)	895,880.5901	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	51	50.8681584	
Longitude	93	22	19.0158312	
Ellipsoid Height (M):	87.529			0.0160
Geoid Height (M):	-26.846			0.0160

Convergence Angle	0	46	4.3211628
Scale Factor	0.999922862		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 FOR 1.2 MILES TO COUNTY ROAD 42N AND TURN RIGHT AND GO 0.5 MILES TO COUNTY ROAD 60W AND TURN RIGHT AND GO 2.15 MILES TO COUNTY ROAD 37 AND TURN LEFT (NORTH) AND GO 0.35 MILES TO THE MARK ON THE LEFT, 21.2 FEET WEST OF THE C/L OF CR 37, 9.2 FEET NORTH OF THE C/L OF A GRAVEL DRIVE AND WEST 49.3 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500007 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1		334	14.80	48.6
MK # 2	CENTER OF GATE	269	62.80	206.0
MK # 3	SOUTH END OF 18" CMP	22	11.90	39.0

AZ Mark Station	500007A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500007A	7/1/2014	AHTD	NEVADA	CR 37	BR5007

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	533,105.6418	0.0050
Easting (M)	273,055.8198	0.0050
Elevation (M)*		
Northing (SFT)	1,749,030.7598	
Easting (SFT)	895,850.6355	
Elevation (SFT)*		

Convergence Angle	0	46	4.3570963	
Scale Factor			0.999923126	
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	51	32.7511512	
Longitude	93	22	19.0800336	
Ellipsoid Height (M):			78.512	0.0170
Geoid Height (M):			-26.842	0.0170

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 FOR 1.2 MILES TO COUNTY ROAD 42N AND TURN RIGHT AND GO 0.5 MILES TO COUNTY ROAD 60W AND TURN RIGHT AND GO 2.15 MILES TO COUNTY ROAD 37 AND THE MARK IN THE NORTHEAST CORNER OF THE JUNCTION, EAST 23.5 FEET OF THE CENTERLINE OF CR 37 AND NORTH 17 FEET OF THE C/L OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "500007A 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	22	15.20	49.9
MK # 2	CENTER OF CATTLE GUARD	132	22.70	74.5
MK # 3	NORTH END OF STEEL CULV	330	9.80	32.2

AZ Mark Station	500007
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500008	9/26/2017	AHTD	NEVADA	19	030458

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	543,034.4253	0.0020
Easting (M)	266,544.6232	0.0020
Elevation (M)*		
Northing (SFT)	1,781,605.4437	
Easting (SFT)	874,488.4846	
Elevation (SFT)*		

Convergence Angle	0	48	29.1769004
Scale Factor	0.999919606		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	56	52.0845828
Longitude	93	26	37.8297456
Ellipsoid Height (M):	49.118	0.0050	
Geoid Height (M):	-26.991	0.0050	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 29S AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 2.3 MILES TO THE MARK ON THE RIGHT, 34' EAST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "500008 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE CORNER LITTLE MISSOURI RIVER RELIEF BR	195	18.07	59.3
MK # 2	NORTH END EAST GUARDRAIL OF RELIEF BRIDGE	345	9.14	30.0
MK # 3				

AZ Mark Station	500008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV, OKHV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500008A	9/26/2017	AHTD	NEVADA	19	030458

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	543,462.1277	0.0020
Easting (M)	266,548.9848	0.0020
Elevation (M)*		

Northing (SFT)	1,783,008.6640	
Easting (SFT)	874,502.7943	
Elevation (SFT)*		

Convergence Angle	0	48	29.2133275
Scale Factor			0.999919507
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	57	5.9675616
Longitude	93	26	37.8948300
Ellipsoid Height (M):	49.300		0.0050
Geoid Height (M):	-26.994		0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 29S AND STATE HIGHWAY 19, NORTH OF PRESCOTT, GO NORTH ON HIGHWAY 19 2.6 MILES TO THE MARK ON THE LEFT, 21.5' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "500008A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	500008
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV, OKHV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500009	3/13/2025	AHTD	Nevada	371	030650

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	518,847.0130	0.0010
Easting (M)	273,545.9778	0.0010
Elevation (M)*	68.058	
Northing (SFT)	1,702,250.5752	
Easting (SFT)	897,458.7622	
Elevation (SFT)*	223.287	

Convergence Angle	0	45	49.5458553
Scale Factor	0.999932445		
Elevation Adjust. Factor	0.9999893196		
Combined Adjust. Factor	0.9999217653		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	33	43	50.1904920	
Longitude	93	21	52.6167720	
Ellipsoid Height (M):	41.276			0.0080
Geoid Height (M):	-26.782			

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 371 AND HIGHWAY 53, TRAVEL NORTH ALONG HIGHWAY 371 FOR 1.9 MILES TO THE STATION ON THE RIGHT(EAST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 500009, 2025 SET ON TOP OF A 5/8IN REBAR 4FT IN LENGTH SET FLUSH WITH THE SURFACE OF THE GROUND. THE STATION IS 17FT E OF THE CENTERLINE OF HIGHWAY 371 AND 42FT S OF THE CROWN OF A GRAVEL DRIVEWAY.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	323	16.00	52.5
MK # 2	SOUTH END OF A 24IN PLASTIC CULVERT	197	8.00	26.2
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY STATIC OBS HOLDING ORTHO HEIGHT AT ARHP.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
500009A	3/13/2025	AHTD	Nevada	371	030650

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	519,020.2729	0.0010
Easting (M)	273,494.9269	0.0010
Elevation (M)*	70.379	
Northing (SFT)	1,702,819.0120	
Easting (SFT)	897,291.2727	
Elevation (SFT)*	230.902	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	33	43	55.7916960	
Longitude	93	21	54.6895728	
Ellipsoid Height (M):	43.596			0.0080
Geoid Height (M):	-26.783			

Convergence Angle	0	45	50.7059826
Scale Factor	0.999932303		
Elevation Adjust. Factor	0.9999889553		
Combined Adjust. Factor	0.9999212591		

Location Description

FROM THE INTERSECTION OF HIGHWAY 371 AND HIGHWAY 53, TRAVEL NORTH ALONG HIGHWAY 371 FOR 2.1 MILES TO THE STATION ON THE LEFT (WEST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 500009A, 2025 SET ON TOP OF A 5/8IN REBAR 4FT IN LENGTH SET FLUSH WITH THE GROUND. THE STATION IS 16FT W OF THE CENTERLINE OF HIGHWAY 371 AND 18FT E OF A NET WIRE FENCE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PHONE BOX	150	19.00	62.3
MK # 2	COMBINATION POLE	236	17.00	55.8
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY STATIC OBS HOLDING ORTHO HEIGHT AT ARHP TO GPS PN:500009. DIGITAL LEVELS WERE RAN FROM 500009 TO EST. ELEV ON PN:500009A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510001	9/11/1990	AHTD	NEWTON	43	R90034

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	194,131.1950	
Easting (M)	277,311.3690	
Elevation (M)*		
Northing (SFT)	636,912.0956	
Easting (SFT)	909,812.3831	
Elevation (SFT)*		

Convergence Angle	0	47	33.4031428
Scale Factor			0.999972609
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	4	31.7933760	
Longitude	93	21	43.6044312	
Ellipsoid Height (M):				
Geoid Height (M):	-28.706			

Location Description

THE STATION IS ON THE RIGHT SIDE OF HWY. 43 1.50 MILES SOUTH OF AHTD GPS STATION 90510002, 57.3 FEET LEFT OF THE CENTERLINE OF HWY. 43, 0.05 MILES NORTH OF HWY. 103, 0.13 FEET WEST OF A FENCE AND 1.3 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 4" PERSIMMON	336	14.91	48.9
MK # 2	NBC IN 4" PERSIMMON	321	13.62	44.7
MK # 3	NBC IN POWER POLE	246	9.86	32.4

AZ Mark Station	90510002
Geodetic Azimuth	37 19 25
Grid Azimuth	38 06 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old PN: 90510001 NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510002	9/11/1990	AHTD	NEWTON	43	R90034

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	194,311.1910	
Easting (M)	277,452.5860	
Elevation (M)*		
Northing (SFT)	637,502.6325	
Easting (SFT)	910,275.6926	
Elevation (SFT)*		

Convergence Angle	0	47	30.1770814
Scale Factor			0.999972855
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	4	37.6961124	
Longitude	93	21	38.0604096	
Ellipsoid Height (M):				
Geoid Height (M):	-28.708			

Location Description

FROM THE JCT. OF HWY. 103 AND HWY. 43, GO 0.20 MILES NORTH ON HWY. 43 TO THE STATION ON THE LEFT. THE STATION IS 36.5 FEET LEFT OF THE CENTERLINE OF HWY. 43, 39.8 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A HOUSE AND 1.6 FEET EAST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	278	11.37	37.3
MK # 2	NBC IN TOP OF FENCE POST	305	19.84	65.1
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90510001
Geodetic Azimuth	217 19 28
Grid Azimuth	218 06 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90510002. NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510003	9/12/1990	AHTD	NEWTON	103	R90034

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	194,045.5879	
Easting (M)	275,469.4170	
Elevation (M)*		
Northing (SFT)	636,631.2330	
Easting (SFT)	903,769.2456	
Elevation (SFT)*		

Convergence Angle	0	48	16.2083835
Scale Factor	0.999972459		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	4	28.1832312
Longitude	93	22	57.1657044
Ellipsoid Height (M):			
Geoid Height (M):	-28.691		

Location Description

GO NORTH ON HWY. 103 FOR 1.4 MILES, THEN RIGHT 0.10 MILES ON A FIELD ROAD TO THE STATION ON THE RIGHT. THE STATION IS 9 FEET NORTH OF THE CENTERLINE OF A PRIVATE ROAD AND 1.7 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 12" RED OAK	10	11.80	38.7
MK # 2	NBC IN 12" HICKORY	30	30.53	100.2
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90510004
Geodetic Azimuth	338 43 37
Grid Azimuth	339 31 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90510003 NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510004	9/12/1990	AHTD	NEWTON	103	R90034

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	194,223.0970	
Easting (M)	275,403.1610	
Elevation (M)*		
Northing (SFT)	637,213.6107	
Easting (SFT)	903,551.8707	
Elevation (SFT)*		

Convergence Angle	0	48	17.8070918
Scale Factor	0.999972697		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	4	33.9117348	
Longitude	93	22	59.9131020	
Ellipsoid Height (M):				
Geoid Height (M):	-28.692			

Location Description

THE STATION IS 0.1 MILES NORTHWEST FROM AHTD GPS STATION 90510003 IN A PASTURE, 115 FEET NORTHWEST OF A POND LEVEE, 110 FEET SOUTHEAST OF A FENCE AND 4.7 FEET EAST OF A WITNESS POST .

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90510003
Geodetic Azimuth	158 43 35
Grid Azimuth	159 31 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90510004. NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510005	9/12/1990	AHTD	NEWTON	103	R90034

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	195,833.5129	
Easting (M)	273,834.5330	
Elevation (M)*		
Northing (SFT)	642,497.1169	
Easting (SFT)	898,405.4637	
Elevation (SFT)*		

Convergence Angle	0	48	54.8173937
Scale Factor			0.999974870
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	5	25.4366124
Longitude	93	24	3.5157096
Ellipsoid Height (M):			
Geoid Height (M):	-28.688		

Location Description

FROM THE JCT. OF HWY. 43 AND HWY. 103, GO 4.1 MILES ON HWY. 103 TO THE STATION ON THE RIGHT. THE STATION IS 200 FEET WEST OF A CROSS FENCE AND 200 FEET SOUTH OF A POWER POLE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90510006
Geodetic Azimuth	311 24 17
Grid Azimuth	312 13 12

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90510005 NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510006	9/12/1990	AHTD	NEWTON	103	R90034

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	195,998.1760	
Easting (M)	273,653.0630	
Elevation (M)*		
Northing (SFT)	643,037.3491	
Easting (SFT)	897,810.0909	
Elevation (SFT)*		

Convergence Angle	0	48	59.0926897
Scale Factor			0.999975095
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	5	30.6946896
Longitude	93	24	10.8628524
Ellipsoid Height (M):			
Geoid Height (M):	-28.687		

Location Description

FROM THE JCT. OF HWY. 43 AND HWY. 103, GO 4.1 MILES ON HWY. 103 TO THE STATION ON THE RIGHT. THE STATION IS IN THE WEST END OF THE SAME FIELD AS AHTD GPS STATION 90510005, 103.0 FEET FROM A POWER POLE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 4" SWEET GUM	255	22.78	74.7
MK # 2	NBC IN 4" SWEET GUM	221	22.29	73.1
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90510005
Geodetic Azimuth	131 24 13
Grid Azimuth	132 13 12

Area Reference Monuments (used for Processing)

Ref Mon # 1	BURLINGTON RESET
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90510006 NOT ALL BASELINES OBSERVED &NETWORK ADJUSTED WITH ONLY BURLINGTON FIXED. JOHN GEFFKEN (CONSOLIDATED LAND SERVICES, 501-425-6161, 5/15/95) BETWEEN 90510002 (JOB R90034) AND 90080011 (JOB R90017) DIFFERENCE OF 1.17 FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510007	6/26/1996	AHTD	NEWTON	65	R90098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	193,902.9030	
Easting (M)	314,750.5860	
Elevation (M)*	385.055	
Northing (SFT)	636,163.1076	
Easting (SFT)	1,032,644.2142	
Elevation (SFT)*	1,263.301	

Convergence Angle	0	33	2.6833824
Scale Factor	0.999972893		
Elevation Adjust. Factor	0.9999395760		
Combined Adjust. Factor	0.9999124706		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	4	38.6267304
Longitude	92	56	47.2630236
Ellipsoid Height (M):	356.138		
Geoid Height (M):	-28.917		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO SOUTH ON HWY-65 FOR 2.09 KM. (1.30 MI.) TO THE STATION ON THE RIGHT. 9.12 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 1.26 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	4	22.91	75.2
MK # 2	WOODEN FENCE POST	223	1.65	5.4
MK # 3	CONCRETE RIGHT OF WAY MARKER	312	13.43	44.1

AZ Mark Station	640006
Geodetic Azimuth	148 34 21.63820
Grid Azimuth	149 07 24.34801

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510008	6/26/1996	AHTD	NEWTON	65	0098,Mobile LiDAR-CLS,090

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	196,509.0011	
Easting (M)	313,489.5704	
Elevation (M)*	340.468	
Northing (SFT)	644,713.2811	
Easting (SFT)	1,028,507.0322	
Elevation (SFT)*	1,117.019	

Convergence Angle	0	33	32.6009187
Scale Factor	0.999976484		
Elevation Adjust. Factor	0.9999465723		
Combined Adjust. Factor	0.9999230576		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	36	6	2.7914400
Longitude	92	57	38.6737416
Ellipsoid Height:	311.538		
Grid Northing (Meters)	196,509.3300		
Grid Easting (Meters)	313,489.6460		

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	36	6	2.7807480
Longitude	92	57	38.6766360
Ellipsoid Height (M):	312.207		
Geoid Height (M):	-28.235		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HIGHWAY 123 IN WESTERN GROVE, GO NORTH ON HWY-65 FOR 0.97 KM. (0.60 MI.) TO THE JUNCTION WITH "GLADEN STREET" AND THE STATION ON THE LEFT ON TOP OF A BANK ABOUT 2.0 METERS HIGHER THAN THE ROAD SURFACE. 42.03 METERS SOUTH OF THE CENTER OF "GLADEN ST.", 33.63 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.77 METERS NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510008 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CEDAR FENCE POST	281	3.04	10.0
MK # 2	CONCRETE RIGHT OF WAY MARKER	233	0.61	2.0
MK # 3	CEDAR FENCE POST	157	4.96	16.3

AZ Mark Station	510008A
Geodetic Azimuth	358 26 47.00945
Grid Azimuth	359 00 19.60669

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

THE ELEVATION BY 3-WIRE USING USC&GS BENCE MARK "J 130 1935" ELEVATION = 350.852 METERS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510008A	6/26/1996	AHTD	NEWTON	65	0098,Mobile LiDAR-CLS,090

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	197,010.9392	
Easting (M)	313,480.8478	
Elevation (M)*	335.957	
Northing (SFT)	646,360.0564	
Easting (SFT)	1,028,478.4148	
Elevation (SFT)*	1,102.219	

Convergence Angle	0	33	32.9177837
Scale Factor			0.999977198
Elevation Adjust. Factor			0.9999472802
Combined Adjust. Factor			0.9999244794

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	6	19.0732500
Longitude	92	57	39.2178960
Ellipsoid Height:			307.023
Grid Northing (Meters)			197,011.2730
Grid Easting (Meters)			313,480.9330

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	36	6	19.0623960
Longitude	92	57	39.2211720
Ellipsoid Height (M):	307.692		
Geoid Height (M):	-28.236		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO NORTH ON HWY-65 FOR 1.45 KM. (0.90 MI.) TO THE STATION ON THE LEFT. 54.0 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 17.85 METERS WEST OF THE CENTER OF HWY-65 AND 0.93 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	186	12.10	39.7
MK # 2	WOODEN FENCE POST	359	24.90	81.7
MK # 3	NONE			

AZ Mark Station	510008
Geodetic Azimuth	178 26 46.6888
Grid Azimuth	179 00 19.60669

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

THE ELEVATION BY 3-WIRE USING USC&GS BENCE MARK "J 130 1935" ELEVATION = 350.852 METERS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510009	12/16/2002	AHTD	NEWTON	7	090169, 009784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,410.9590	
Easting (M)	297,546.0780	
Elevation (M)*	256.634	
Northing (SFT)	631,268.2880	
Easting (SFT)	976,199.0909	
Elevation (SFT)*	841.974	

Convergence Angle	0	39	42.3828830
Scale Factor	0.999970665		
Elevation Adjust. Factor	0.9999597274		
Combined Adjust. Factor	0.9999303935		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	44.3170404
Longitude	93	8	14.1509760
Ellipsoid Height (M):	228.477		
Geoid Height (M):	-28.157		

Location Description

TO REACH THE STATION FROM THE BOONE / NEWTON COUNTY LINE ON HIGHWAY 7 SOUTH OF HARRISON, GO SOUTH ON STATE HIGHWAY 7 FOR 5.00 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.75 METERS EAST OF THE CENTER OF STATE HIGHWAY 7, 7.00 METERS NORTH OF THE EDGE OF AN ASHPHALT PULL IN, 7.00 METERS WEST OF THE CENTER OF A GRAVEL ROAD TO SHADDOX CEMETERY, AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "510009 2002" SET ON TOP OF AN IRON ROD 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	POST OF HIGHWAY STOP SIGN	160	3.55	11.6
MK # 2				
MK # 3				

AZ Mark Station	510009A
Geodetic Azimuth	213 22 06
Grid Azimuth	214 01 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1, Russport
Ref Mon # 2	Butler, Conway Mo. CORS
Ref Mon # 3	Fayeteville, Muscogee Ok. CORS

Comments

Elevation by S5103 by 3-wire from NGS Point N 18.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510009A	12/16/2002	AHTD	NEWTON	7	090169, 009784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,158.5950	
Easting (M)	297,375.6630	
Elevation (M)*	249.991	
Northing (SFT)	630,440.3238	
Easting (SFT)	975,639.9877	
Elevation (SFT)*	820.179	

Convergence Angle	0	39	46.2773397
Scale Factor	0.999970332		
Elevation Adjust. Factor	0.9999607698		
Combined Adjust. Factor	0.9999311030		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	36.0657144
Longitude	93	8	20.8436424
Ellipsoid Height (M):	221.835		
Geoid Height (M):	-28.156		

Location Description

TO REACH THE STATION FROM THE BOONE / NEWTON COUNTY LINE ON HIGHWAY 7 SOUTH OF HARRISON, GO SOUTH ON STATE HIGHWAY 7 FOR 5.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "510009A 2002" SET ON TOP OF AN IRON ROD 0.40 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	81	2.55	8.4
MK # 2	COMBINATION POLE	223	17.15	56.3
MK # 3				

AZ Mark Station	510009
Geodetic Azimuth	33 22 02
Grid Azimuth	34 01 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1, Russport
Ref Mon # 2	Butler, Conway Mo. CORS
Ref Mon # 3	Fayeteville, Muscogee Ok. CORS

Comments

Elevation by S5103 by 3-wire from NGS Point N 18.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510010	10/14/2003	AHTD	NEWTON	CR 46	090169

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	184,147.1109
Easting (M)	296,540.2070
Elevation (M)*	
Northing (SFT)	604,155.9797
Easting (SFT)	972,898.9958
Elevation (SFT)*	
Convergence Angle	0 40 3.5314237
Scale Factor	0.999960667
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 59 15.8326224
Longitude	93 8 50.4949740
Ellipsoid Height (M):	359.474
Geoid Height (M):	-28.106

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 74, IN JASPER, GO EAST ON HIGHWAY 74 FOR 3.45 MILES TO A CROSSROADS. TURN RIGHT (SOUTH) ON A GRAVEL ROAD HERE AND GO 1.65 MILES TO THE STATION ON THE RIGHT ,7..5 METERS WEST OF A 4' NETWIRE 1 BARB T-POST FENCE AND WEST 7.4 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510010 2003" ON TOP OF A 0.70 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL T-POST PAINTED PURPLE	147	8.65	28.4
MK # 2	4" BLAZED PINE TREE	597.7		
MK # 3				

AZ Mark Station	510010A
Geodetic Azimuth	193 46 35
Grid Azimuth	194 26 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H PHILLIPS
Ref Mon # 2	510009
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510010A	10/14/2003	AHTD	NEWTON	CR 46	090169

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	183,979.5629	
Easting (M)	296,497.0510	
Elevation (M)*		
Northing (SFT)	603,606.2826	
Easting (SFT)	972,757.4082	
Elevation (SFT)*		

Convergence Angle	0	40	4.4885400
Scale Factor	0.999960481		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	59	10.3804476
Longitude	93	8	52.1397888
Ellipsoid Height (M):	370.069		
Geoid Height (M):	-28.103		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 74, IN JASPER, GO EAST ON HIGHWAY 74 FOR 3.45 MILES TO A CROSSROADS. TURN RIGHT (SOUTH) ON A GRAVEL ROAD HERE AND GO 1.75 MILES TO THE STATION IN THE CENTERLINE OF THE ROAD, 6.5 METERS WEST OF A 4' NETWIRE 2 BARB T-POST FENCE AND WEST 6.35 METERS OF A WITNESS POST AND EAST 5.55 METERS OF ANOTHER WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510010A 2003" ON TOP OF A 0.52 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WHITE BLAZED 4" ELM	138.5	10.40	34.1
MK # 2	WHITE BLAZED 16" WHITE OAK	20	27.20	89.2
MK # 3				

AZ Mark Station	510010
Geodetic Azimuth	13 46 34
Grid Azimuth	14 26 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H PHILLIPS
Ref Mon # 2	510009
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510011	1/1/2003	AHTD	Newton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	155,374.7389
Easting (M)	301,014.2540
Elevation (M)*	
Northing (SFT)	509,758.6225
Easting (SFT)	987,577.5983
Elevation (SFT)*	

Convergence Angle	0	38	12.1733862
Scale Factor	0.999939110		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	43	43.9721868
Longitude	93	5	39.1249716
Ellipsoid Height (M):	607.323		
Geoid Height (M):	-28.014		

Location Description

To reach the station from the junction of highways 7, 16 and 123 in the small town of "Sand Gap" in the northern edge of Pope county, go north on hwy-7 for 0.50 miles crossing into Newton county to the station on the left. 33.0 feet west of the center of hwy-7, 16.0 feet north of the center of a paved driveway and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "510011" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	359	7.47	24.5
MK # 2	Wooden corner fence post	209	2.13	7.0
MK # 3	Service pole with light	255	6.40	21.0

AZ Mark Station	510011A
Geodetic Azimuth	6 37 59
Grid Azimuth	7 16 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H Phillips
Ref Mon # 2	ARFY
Ref Mon # 3	Tri County

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510011A	1/1/2003	AHTD	Newton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	155,825.9430
Easting (M)	301,071.8130
Elevation (M)*	
Northing (SFT)	511,238.9480
Easting (SFT)	987,766.4398
Elevation (SFT)*	
Convergence Angle	0 38 10.9566694
Scale Factor	0.999939292
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	43	58.6326324
Longitude	93	5	37.0340304
Ellipsoid Height (M):	630.161		
Geoid Height (M):	-28.008		

Location Description

To reach the station from the junction of highways 7, 16 and 123 in the small town of "Sand Gap" in the northern edge of Pope county, go north on hwy-7 for 0.80 miles crossing into Newton county to the station on the right. 19.0 feet east of the center of hwy-7 and 41.3 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "510011A" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	15	35.36	116.0
MK # 2	15 inch Pine tree on the right of way	69	11.83	38.8
MK # 3	National Forest boundry marker	116	13.66	44.8

AZ Mark Station	510011
Geodetic Azimuth	186 38 00
Grid Azimuth	187 16 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510012	1/1/2003	AHTD	Newton	7	090157,090246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	160,598.2476	0.0010
Easting (M)	302,080.8262	0.0010
Elevation (M)*	620.706	0.0012
Northing (SFT)	526,896.0840	
Easting (SFT)	991,076.8440	
Elevation (SFT)*	2,036.433	

Convergence Angle	0	37	48.8076324
Scale Factor			0.999941520
Elevation Adjust. Factor			0.9999026005
Combined Adjust. Factor			0.9998441262

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (1997)
Latitude	35	46	33.8355624
Longitude	93	4	58.9709172
Ellipsoid Height:			592.740
Grid Northing (Meters)			160,598.2569
Grid Easting (Meters)			302,080.8200

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:	GEOID18		
Latitude	35	46	33.8352636
Longitude	93	4	58.9706688
Ellipsoid Height (M):			592.622 0.0030
Geoid Height (M):			-28.073

Location Description

The station is located 248.0 feet south of the northern most junction of highways 7 and 123 in the "V" formed by the road's intersection near the small village of Lurton. 47.0 feet east of the center of hwy-7 25.5 feet west of the center of hwy-123 and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "510012" set on top of a 5/8 inch by 4.0 foot long rebar and is driven flush with the ground. Elevation on this station was arrived at by digital leveling from BM TT 72 TX PID FG0973

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East end of concrete culvert with rock headwall	294	5.33	17.5
MK # 2	Telephone riser	118	37.19	122.0
MK # 3				

AZ Mark Station	510012A
Geodetic Azimuth	143 31 54
Grid Azimuth	144 09 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510012A	1/1/2003	AHTD	Newton	123	090157,090246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	160,128.6485	0.0010
Easting (M)	302,419.9799	0.0010
Elevation (M)*	610.953	0.0009
Northing (SFT)	525,355.4076	
Easting (SFT)	992,189.5507	
Elevation (SFT)*	2,004.434	

Convergence Angle	0	37	40.8307429
Scale Factor			0.999941278
Elevation Adjust. Factor			0.9999041308
Combined Adjust. Factor			0.9998454144

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	46	18.7201776
Longitude	93	4	45.2624196
Ellipsoid Height:			583.007
Grid Northing (Meters)			160,128.6640
Grid Easting (Meters)			302,419.9770

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:	GEOID18		
Latitude	35	46	18.7196772
Longitude	93	4	45.2622972
Ellipsoid Height (M):	582.878		0.0030
Geoid Height (M):	-28.073		

Location Description

To reach the station from Jct. SR-123 North & SR-7 South, go Left on SR-123 North for 0.30 miles to the station on the Right. The station is a standard 2 1/2 inch cap stamped "510012A" set on top of a 4 foot rebar and is driven 0.2 feet below the surface of the ground. Elevation on this station was arrived at by digital leveling from BM TT 72 TX PID FG0973

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	315	27.74	91.0
MK # 2	Power Pole	170	28.35	93.0
MK # 3	SW end of CMP Culvert	128	39.32	129.0

AZ Mark Station	510012
Geodetic Azimuth	323 32 02
Grid Azimuth	324 09 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510013	1/1/2003	AHTD	Newton	7	090157,090246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	161,415.7453	0.0010
Easting (M)	299,345.0246	0.0010
Elevation (M)*	597.897	0.0027
Northing (SFT)	529,578.1577	
Easting (SFT)	982,101.1349	
Elevation (SFT)*	1,961.601	

Convergence Angle	0	38	52.4055744
Scale Factor			0.999941941
Elevation Adjust. Factor			0.9999061792
Combined Adjust. Factor			0.9998481257

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	46	59.3697576
Longitude	93	6	48.2643360
Ellipsoid Height:			569.927
Grid Northing (Meters)			161,415.7600
Grid Easting (Meters)			299,345.0270

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:	GEOID18			
Latitude	35	46	59.3692824	
Longitude	93	6	48.2644260	
Ellipsoid Height (M):			569.830	0.0030
Geoid Height (M):			-28.083	

Location Description

To reach the station from Jct. SR-7 & SR-123 located North of the Pope / Nweton county line. From the Northern most "Y" on SR-123, go North on SR-7 for 1.90 miles to the station on the Left. 27.8 feet SE of Forest Service Rd. #1208 (Gravel Road). 1.5 feet NE of a witness post. 88 feet SW of the centerline on SR-7. The station is a standard 2.5 inch aluminum cap stamped "510013 - 2003" set on top of a 4 foot rebar and driven flush with the ground. The station is just South of the "Who-Da Thought it" store.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW end 18" Culvert	128	31.09	102.0
MK # 2	18" Elm tree	229	11.52	37.8
MK # 3	Forest Service Rd. #1208 Sign Post	355	13.41	44.0

AZ Mark Station	510013A
Geodetic Azimuth	352 33 23
Grid Azimuth	353 12 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510013A	1/1/2003	AHTD	Newton	7	090157,090246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	161,665.8883	0.0010
Easting (M)	299,315.2324	0.0010
Elevation (M)*	606.428	0.0028
Northing (SFT)	530,398.8352	
Easting (SFT)	982,003.3916	
Elevation (SFT)*	1,989.590	

Convergence Angle	0	38	53.1614314
Scale Factor			0.999942078
Elevation Adjust. Factor			0.9999048407
Combined Adjust. Factor			0.9998469242

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	47	7.4748048
Longitude	93	6	49.5639144
Ellipsoid Height:			578.446
Grid Northing (Meters)			161,665.9029
Grid Easting (Meters)			299,315.2190

Vertical Determined By:			NONE
Elevation Datum:			NONE
Geoid Datum:			GEOID18
Latitude	35	47	7.4743368
Longitude	93	6	49.5633744
Ellipsoid Height (M):			578.381 (0.0030)
Geoid Height (M):			-28.082

Location Description

To reach the station from Jct. SR-7 & SR-123 located North of the Pope / Nweton county line. From the Northern most "Y" on SR-123, go North on SR-7 for 2.90 miles to the station on the Left. 14.3 feet E of a witness post. 31 feet W of the centerline on SR-7. The station is a standard 2.5 inch aluminum cap stamped "510013A - 2003" set on top of a 4 foot rebar and driven flush with the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" oak tree	313	13.11	43.0
MK # 2	Cable marker	356	39.32	129.0
MK # 3				

AZ Mark Station	510013
Geodetic Azimuth	172 33 22
Grid Azimuth	173 12 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510014	1/1/2003	AHTD	Newton	7	090157,090246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,890.3571	0.0010
Easting (M)	296,725.7280	0.0010
Elevation (M)*	614.412	0.0000
Northing (SFT)	540,977.7799	
Easting (SFT)	973,507.6593	
Elevation (SFT)*	2,015.784	

Convergence Angle	0	39	54.0297339
Scale Factor			0.999943963
Elevation Adjust. Factor			0.9999035880
Combined Adjust. Factor			0.9998475564

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	48	51.1304256
Longitude	93	8	34.1660220
Ellipsoid Height:			586.437
Grid Northing (Meters)			164,890.3659
Grid Easting (Meters)			296,725.7330

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	48	51.1301376
Longitude	93	8	34.1662164
Ellipsoid Height (M):	586.347		0.0030
Geoid Height (M):	-28.065		

Location Description

To reach the station from SR-7 South & SR-16 West, (South of Jasper) go South on SR-7 for 4.50 miles to the station on the left. 20.5 feet SW of centerline of a field road. 1.5 feet from a witness post. 36 feet NW of centerline of SR-7. The station is a standard 2.5 inch aluminum cap stamped "510014 - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser	231	23.77	78.0
MK # 2	Metal gate post	040	8.08	26.5
MK # 3	7" pine tree on R/W	058	27.43	90.0

AZ Mark Station	510014A
Geodetic Azimuth	258 00 20
Grid Azimuth	258 40 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510014A	1/1/2003	AHTD	Newton	7	090157,090246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,802.2477	0.0010
Easting (M)	296,285.9683	0.0010
Elevation (M)*	629.097	0.0010
Northing (SFT)	540,688.7077	
Easting (SFT)	972,064.8810	
Elevation (SFT)*	2,063.964	

Convergence Angle	0	40	4.1991991
Scale Factor			0.999943904
Elevation Adjust. Factor			0.9999012839
Combined Adjust. Factor			0.9998451934

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	48	48.1058640
Longitude	93	8	51.6422148
Ellipsoid Height:			601.112
Grid Northing (Meters)			164,802.2600
Grid Easting (Meters)			296,285.9770

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	48	48.1054608	
Longitude	93	8	51.6425532	
Ellipsoid Height (M):			601.023	0.0030
Geoid Height (M):			-28.064	

Location Description

To reach the station from SR-7 South & SR-16 West, (South of Jasper) go South on SR-7 for 4.10 miles to the station on the left. 4 feet SE of a witness post. 32 feet NE of centerline of SR-7. The station is a standard 2.5 inch aluminum cap stamped "510014A - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	228	29.87	98.0
MK # 2	Telephone riser	290	30.48	100.0
MK # 3	Water vale@sign	103	8.23	27.0

AZ Mark Station	510014
Geodetic Azimuth	78 00 10
Grid Azimuth	78 40 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510015	1/1/2003	AHTD	Nweton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	169,092.3590	
Easting (M)	292,034.5260	
Elevation (M)*		
Northing (SFT)	554,763.8478	
Easting (SFT)	958,116.6074	
Elevation (SFT)*		

Convergence Angle	0	41	43.9497749
Scale Factor			0.999946785
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	5.6560644
Longitude	93	11	43.0650060
Ellipsoid Height (M):	634.349		
Geoid Height (M):	-27.931		

Location Description

To reach the station from jct. of SR-7 & SR-16 West, (South of Jasper), go South on SR-7 for 500 feet (chained distance) from the Northern most triangle of the two highways to the station located between SR-7 & SR-16. 53 feet West of centerline of SR-7. 32 feet East of centerline of SR-16. 1.5 feet E of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510015 - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	N/A	000	0.00	0.0
MK # 2				
MK # 3				

AZ Mark Station	510015A
Geodetic Azimuth	6 57 53
Grid Azimuth	7 39 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510015A	1/1/2003	AHTD	Nweton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	169,485.1570	
Easting (M)	292,087.3570	
Elevation (M)*		
Northing (SFT)	556,052.5526	
Easting (SFT)	958,289.9371	
Elevation (SFT)*		

Convergence Angle	0	41	42.8351646
Scale Factor			0.999947075
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	18.4210200
Longitude	93	11	41.1495360
Ellipsoid Height (M):	644.135		
Geoid Height (M):	-27.932		

Location Description

To reach the station from jct. of SR-7 & SR-16 West, (South of Jasper), go North on SR-7 for 1.80 miles to the station on the left. 21 feet West of centerline of SR-7. 32 feet East of centerline of SR-16. 10 feet E of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510015A - 2003" and set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone riser	053	44.50	146.0
MK # 2	North end of 15" CMP culvert	189	30.48	100.0
MK # 3				

AZ Mark Station	510015
Geodetic Azimuth	186 57 54
Grid Azimuth	187 39 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510016	1/1/2003	AHTD	Newton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	175,423.8330
Easting (M)	292,952.9840
Elevation (M)*	
Northing (SFT)	575,536.3588
Easting (SFT)	961,129.9150
Elevation (SFT)*	
Convergence Angle	0 41 24.4194181
Scale Factor	0.999951925
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	54	31.4369028
Longitude	93	11	9.5018748
Ellipsoid Height (M):	614.234		
Geoid Height (M):	-27.971		

Location Description

To reach the station from SR-7 North & SR-16 West, (South of Jasper) go North on SR-7 for 4.40 miles to the station on the right atop a bluff above the level of SR-7 (Approximately 8-10 feet) in an area that used to a roadside park, at the North end of a picket fence and old sign with rock border. 40 feet E of centerline of SR-7. 1.5 feet W of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510016 - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	024	15.24	50.0
MK # 2	Combination pole	187	19.51	64.0
MK # 3				

AZ Mark Station	510016A
Geodetic Azimuth	195 59 56
Grid Azimuth	196 41 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510016A	1/1/2003	AHTD	Newton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	175,048.3019
Easting (M)	292,840.3980
Elevation (M)*	
Northing (SFT)	574,304.3038
Easting (SFT)	960,760.5391
Elevation (SFT)*	

Convergence Angle	0	41	26.9270593
Scale Factor	0.999951592		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	54	19.2091032
Longitude	93	11	13.8112836
Ellipsoid Height (M):	614.465		
Geoid Height (M):	-27.967		

Location Description

To reach the station from SR-7 North & SR-16 West, (South of Jasper) go North on SR-7 for 4.20 miles to the station on the right atop a ridge line along the highway in front of an RV park. 35 feet N of centerline of asphalt driveway. 32.5 feet E of centerline of SR-7. 1.5 feet W of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510016A - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the surface of the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North end of 18" CMP culvert	238	6.10	20.0
MK # 2	Combination pole	195	23.16	76.0
MK # 3	Wood fence corner	150	3.05	10.0

AZ Mark Station	510016
Geodetic Azimuth	15 59 54
Grid Azimuth	16 41 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510017	1/1/2003	AHTD	Newton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	178,550.7680	
Easting (M)	294,955.3510	
Elevation (M)*		
Northing (SFT)	585,795.3113	
Easting (SFT)	967,699.3474	
Elevation (SFT)*		

Convergence Angle	0	40	38.8095323
Scale Factor	0.999954848		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	13.6626396
Longitude	93	9	51.1207884
Ellipsoid Height (M):	594.377		
Geoid Height (M):	-28.017		

Location Description

To reach the station from jct. SR-7 & SR-374, (South of Jasper) go South on SR-7 for 2.40 miles to the station on the right in the ditch in front of the "Gum Springs" church. 122 feet NW of church gravel driveway. 26 feet SW of centerline of SR-7. 1.5 feet NE of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510017 - 2003" set on top of a 4 foot rebar and driven flush with the ground.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Flag pole	177	10.45	34.3
MK # 2	Power pole with transformer	219	18.90	62.0
MK # 3				

AZ Mark Station	510017A
Geodetic Azimuth	133 27 11
Grid Azimuth	134 07 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510017A	1/1/2003	AHTD	Newton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	178,328.1829	
Easting (M)	295,184.7960	
Elevation (M)*		
Northing (SFT)	585,065.0467	
Easting (SFT)	968,452.1182	
Elevation (SFT)*		

Convergence Angle	0	40	33.4220665
Scale Factor			0.999954636
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	6.5290200
Longitude	93	9	41.8623696
Ellipsoid Height (M):	603.173		
Geoid Height (M):	-28.018		

Location Description

To reach the station from jct. SR-7 & SR-374, (South of Jasper) go South on SR-7 for 2.60 miles to the station on the left. 73 feet North of centerline of driveway. 34 feet SW of centerline of SR-7. 1.5 feet NE of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510017A - 2003" set on top of a 4 foot rebar and driven 0.20 feet below the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Twin cedar tree	001	4.72	15.5
MK # 2	4" cedar tree	111	3.66	12.0
MK # 3	Sign post	125	16.92	55.5

AZ Mark Station	510017
Geodetic Azimuth	313 27 17
Grid Azimuth	314 07 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510018	1/1/2003	AHTD	Newton	7	090157, 090288

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	181,716.0790
Easting (M)	296,119.3340
Elevation (M)*	
Northing (SFT)	596,180.1692
Easting (SFT)	971,518.1816
Elevation (SFT)*	
Convergence Angle	0 40 12.6474981
Scale Factor	0.999958047
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	57	56.8016496
Longitude	93	9	6.1610472
Ellipsoid Height (M):	627.310		
Geoid Height (M):	-28.047		

Location Description

To reach the station from jct. SR-7 & SR-374 (South of Jasper), go South on SR-7 for 0.10 miles to a gravel road (Town Ln.) on the left, turn left on Town Ln. and go West for 0.10 miles through a left and right turn to the station on the right of the gravel road along side a barbed wire fence. 11 feet N of centerline of gravel road (Town Ln.). 1.5 feet N of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510018 - 2003" set on top of a 4 foot rebar and driven flush with the surface of the ground.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	290	24.38	80.0
MK # 2	Electric pedastal	355	19.20	63.0
MK # 3	Electric pedastal	074	18.90	62.0

AZ Mark Station	510018A
Geodetic Azimuth	211 55 33
Grid Azimuth	212 35 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510018A	1/1/2003	AHTD	Newton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	181,447.5279	
Easting (M)	295,947.6150	
Elevation (M)*		
Northing (SFT)	595,299.0978	
Easting (SFT)	970,954.8002	
Elevation (SFT)*		

Convergence Angle	0	40	16.5622685
Scale Factor			0.999957765
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	57	48.0236256	
Longitude	93	9	12.8886228	
Ellipsoid Height (M):	632.020			
Geoid Height (M):	-28.042			

Location Description

To reach the station from jct. SR-7 & SR-374 (South of Jasper), go South on SR-7 for 0.20 miles to the station on the left in front of an old hotel / restaurant complex. 145 feet E of centerline of driveway leading to a water tower. 39 feet SE of centerline of SR-7. 6 feet SW of a witness post. The station is a standard 2.5 inch aluminum cap stamped "510018A - 2003" set on top of a 4 foot rebar and driven flush with the surface of the ground.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NW corner rock wall	210	6.86	22.5
MK # 2	NE corner rock wall	136	15.70	51.5
MK # 3	Hotel sign base rock	046	33.83	111.0

AZ Mark Station	510018
Geodetic Azimuth	31 55 29
Grid Azimuth	32 35 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	W H Phillips
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510020	10/30/2003	AHTD	NEWTON	7	090221

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,072.8050	
Easting (M)	298,222.3900	
Elevation (M)*	320.144	
Northing (SFT)	643,282.1944	
Easting (SFT)	978,417.9579	
Elevation (SFT)*	1,050.339	

Convergence Angle	0	39	27.6352001
Scale Factor	0.999975641		
Elevation Adjust. Factor	0.9999497615		
Combined Adjust. Factor	0.9999254037		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	5	43.3699008
Longitude	93	7	48.8069220
Ellipsoid Height (M):	291.979		
Geoid Height (M):	-28.151		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE NORTH END OF THE BUFFALO RIVER BRIDGE AND STATE HIGHWAY 7, NORTH OF JASPER, GO NORTH ON HIGHWAY 7 2.75 MILES TO TO THE STATION ON THE RIGHT JUST SOUTH OF A GRAVEL ROAD. 25 FEET EAST OF THE CENTER OF THE ROAD AND 1.50 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510020 2003" ON TOP OF A 0.50 METER ION ROD DRIVEN .02 METERS SUBSURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	510020A
Geodetic Azimuth	324 45 29
Grid Azimuth	325 24 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	050032, 050032A
Ref Mon # 2	510009, 510009A
Ref Mon # 3	ARHR

Comments

3-Wire Levels ran from 2nd NGS marks N 18 & TT 107 TX by crew S5102 in Nov. 2007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510020A	10/30/2003	AHTD	NEWTON	7	090221

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,359.0409	
Easting (M)	298,025.0450	
Elevation (M)*	324.285	
Northing (SFT)	644,221.2867	
Easting (SFT)	977,770.5018	
Elevation (SFT)*	1,063.926	

Convergence Angle	0	39	32.3021782
Scale Factor	0.999976040		
Elevation Adjust. Factor	0.9999491116		
Combined Adjust. Factor	0.9999251529		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	5	52.5825528
Longitude	93	7	56.8271748
Ellipsoid Height (M):	296.128		
Geoid Height (M):	-28.149		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND THE NORTH END OF THE BUFFALO RIVER BRIDGE, NORTH OF JASPER, GO NORTH ON HIGHWAY 7 FOR 3.05 MILES TO THE STATION ON THE LEFT, NORTHWEST 21.70 METERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "510020A 2003" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	510020
Geodetic Azimuth	144 45 25
Grid Azimuth	145 24 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	510009, 510009A
Ref Mon # 2	050032, 050032A
Ref Mon # 3	ARHR

Comments

3-Wire Levels ran from 2nd NGS marks N 18 & TT 107 TX by crew S5102 in Nov. 2007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510020X	2/18/2009	AHTD	Newton	7	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	184,815.4329
Easting (M)	293,553.9580
Elevation (M)*	
Northing (SFT)	606,348.6328
Easting (SFT)	963,101.6105
Elevation (SFT)*	

Convergence Angle	0	41	13.0862124
Scale Factor	0.999961371		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	59	36.3699564
Longitude	93	10	50.0256372
Ellipsoid Height (M):	389.063		
Geoid Height (M):	-28.081		

Location Description

To reach the station from jct. SR-7 & SR-374 (South of Jasper), go North on SR-7 for 2.90 miles to the station on the right, 2 feet behind the guardrail at the entrance of the runaway truck ramp. 21 feet NE of centerline of runaway truck ramp. 55 feet NE of centerline of SR-7. 2 feet from a witness post. The station is a standard 2.5 inch aluminum cap stamped "510020 - 2009" set on top of a 4 foot rebar and driven 0.20 foot below the surface of the ground. This station has a duplicate number.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	South end of guardrail	159	5.94	19.5
MK # 2	Manhole access	201	7.32	24.0
MK # 3	Corner concrete ditch	300	17.07	56.0

AZ Mark Station	W H Phillips
Geodetic Azimuth	331 12 32
Grid Azimuth	331 53 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	ARFY
Ref Mon # 3	W H Phillips

Comments

This station replaced 510019 wich was in this area but was destroyed.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510021	3/8/2011	AHTD	Newton	103	090304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	193,629.8930
Easting (M)	274,480.3680
Elevation (M)*	550.432
Northing (SFT)	635,267.4073
Easting (SFT)	900,524.3407
Elevation (SFT)*	1,805.876

Convergence Angle	0	48	39.0708318
Scale Factor	0.999971884		
Elevation Adjust. Factor	0.9999136267		
Combined Adjust. Factor	0.9998855132		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	14.2450392
Longitude	93	23	36.4550712
Ellipsoid Height (M):	522.566		
Geoid Height (M):	-27.866		

Location Description

To reach from the Newton and Carroll county lines on Highway 103, go southwest on Highway 103 for 4.8 miles to the station on the right, 37 feet south of the centerline of highway 103 and 3.5 feet north of a witness post. The station mark is a standard 2 1/2" cap stamped "510021 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of gate	278	4.27	14.0
MK # 2	36" CMP culvert	144	21.34	70.0
MK # 3				

AZ Mark Station	510021A
Geodetic Azimuth	275 43 18
Grid Azimuth	276 31 48

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510021A	3/8/2011	AHTD	Newton	103	090304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,583.5549	
Easting (M)	274,885.1930	
Elevation (M)*	578.533	
Northing (SFT)	635,115.3797	
Easting (SFT)	901,852.5040	
Elevation (SFT)*	1,898.070	

Convergence Angle	0	48	29.6423167
Scale Factor	0.999971830		
Elevation Adjust. Factor	0.9999092175		
Combined Adjust. Factor	0.9998810501		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	12.9273276
Longitude	93	23	20.2520652
Ellipsoid Height (M):	550.664		
Geoid Height (M):	-27.869		

Location Description

To reach from the intersection of the Newton and Carroll county lines on Highway 103, go southwest on Highway 103 in Newton county for 4.8 miles to the station on the right, 22 feet south of the centerline of Highway 103, 17 feet north of a witness post, and 17 feet north of a fence. The station mark is a standard 2 1/2" cap stamped "510021A 2011" ans set on top of a 4 foot long rebar driven 0.2 feet below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northwest Fence Corner	252	26.82	88.0
MK # 2	18" by 38" arched cmp w/ Flared end section	75	65.23	214.0
MK # 3				

AZ Mark Station	510021
Geodetic Azimuth	95 43 09
Grid Azimuth	96 31 48

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510022	7/7/2025	ARDOT	Newton	7	090246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	155,331.4389	0.0010
Easting (M)	301,010.3864	0.0010
Elevation (M)*	634.896	0.0022
Northing (SFT)	509,616.5625	
Easting (SFT)	987,564.9094	
Elevation (SFT)*	2,082.989	

Convergence Angle	0	38	12.2517960
Scale Factor	0.999939093		
Elevation Adjust. Factor	0.9999003740		
Combined Adjust. Factor	0.9998394731		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	43	42.5658864
Longitude	93	5	39.2597196
Ellipsoid Height (M):	606.772		0.0050
Geoid Height (M):	-28.117		

Location Description

FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 7 AND ARKANSAS STATE HIGHWAYS 123 WEST AND 16 EAST LOCATED IN THE SMALL COMMUNITY 0F PELSER IN NORTHERN POPE COUNTY ARKANSAS, TRAVEL NORTH ALONG ARKANSAS STATE HIGHWAY 7 FOR 0.55 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 570022, 2025 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/ 8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 75 FEET (22.86 M) NORTH OF THE CENTER OF A ASPHALT DRIVEWAY, 27 FEET (7.09 M) EAST OF THE HIGHWAY CENTERLINE AND 12 FEET (3.66 M) EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S.E. CORNER MOBIL HOME	340	20.72	68.0
MK # 2	N. E. CORNER 1 STORY FRAME HOUSE	195	27.13	89.0
MK # 3				

AZ Mark Station	570022A
Geodetic Azimuth	7 18 56
Grid Azimuth	7 57 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARRV
Ref Mon # 3	P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
510022A	7/7/2025	ARDOT	Newton	7	090246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	155,799.7051	0.0010
Easting (M)	301,075.7984	0.0010
Elevation (M)*	658.511	0.0019
Northing (SFT)	511,152.8658	
Easting (SFT)	987,779.5153	
Elevation (SFT)*	2,160.463	

Convergence Angle	0	38	10.8576359
Scale Factor	0.999939281		
Elevation Adjust. Factor	0.9998966689		
Combined Adjust. Factor	0.9998359562		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	43	57.7827588
Longitude	93	5	36.8638404
Ellipsoid Height (M):	630.403	0.0060	
Geoid Height (M):	-28.112		

Location Description

FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 7 AND ARKANSAS STATE HIGHWAYS 123 WEST AND 16 EAST LOCATED IN THE SMALL COMMUNITY 0F PELSER IN NORTHERN POPE COUNTY ARKANSAS, TRAVEL NORTH ALONG ARKANSAS STATE HIGHWAY 7 FOR 0.84 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 570022A, 2025 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/ 8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS SET ON TOP OF A HIGHWAY ENBANKMENT 39 FEET (1.88 M) EAST OF THE HIGHWAY CENTERLINE AND 12 FEET (3.66 M) EAST OF A WITNESS POST

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	190	29.87	98.0
MK # 2	DOWN GUY	160	29.87	98.0
MK # 3				

AZ Mark Station	570022
Geodetic Azimuth	187 18 56
Grid Azimuth	187 57 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARRV
Ref Mon # 3	P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520001	6/21/1995	AHTD	OUACHITA	57	070046

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	483,065.8701
Easting (M)	300,579.7480
Elevation (M)*	75.456
Northing (SFT)	1,584,858.6088
Easting (SFT)	986,152.0566
Elevation (SFT)*	247.559

Convergence Angle	0	35	53.6642607
Scale Factor			0.999977263
Elevation Adjust. Factor			0.9999881586
Combined Adjust. Factor			0.9999654219

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	39.2828220
Longitude	93	4	7.9544352
Ellipsoid Height (M):	48.445		
Geoid Height (M):	-27.011		

Location Description

FROM THE JCT. OF HWY. 57 AND HWY. 79 IN THE SMALL VILLAGE OF STEPHENS JUST SOUTHWEST OF CAMDEN, GO EASTERLY ON HWY. 57 FOR 0.15 KM (0.09 MILES) CROSSING OVER A RAILROAD OVERPASS TO THE STATION ON THE LEFT IN A SMALL PARKING AREA. THE STATION IS 28.20 METERS NORTH OF THE CENTER OF HWY. 57, 32.0 METERS WEST OF THE CENTER OF CANNON STREET AND 1.00 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "520001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	230	23.40	76.8
MK # 2	TELEPHONE JUNCTION BOX	163	28.15	92.4
MK # 3	NONE			

AZ Mark Station	520001A
Geodetic Azimuth	36 30 55.31902
Grid Azimuth	37 06 48.94561

Area Reference Monuments (used for Processing)

Ref Mon # 1	BEECH 1950
Ref Mon # 2	K 204 1960
Ref Mon # 3	NONE

Comments

JOB NO. 070068 USES SAME S.A.F.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520001A	6/21/1995	AHTD	OUACHITA	N/A	070046

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	483,354.4911
Easting (M)	300,798.1390
Elevation (M)*	69.784
Northing (SFT)	1,585,805.5262
Easting (SFT)	986,868.5610
Elevation (SFT)*	228.950

Convergence Angle	0	35	48.9989039
Scale Factor			0.999976770
Elevation Adjust. Factor			0.9999890487
Combined Adjust. Factor			0.9999658190

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	24	48.7245852
Longitude	93	3	59.6188368
Ellipsoid Height (M):	42.772		
Geoid Height (M):	-27.012		

Location Description

FROM THE JCT. OF HWY. 57 AND HWY. 79 IN THE SMALL VILLAGE OF STEPHENS JUST SOUTHWEST OF CAMDEN, GO EASTERLY ON HWY. 57 FOR 0.16 KM (0.10 MILES) TO THE JCT. WITH "NORTH CANNON STREET" ON THE LEFT, TURN LEFT AND NORTH ON "CANNON STREET" AND GO 0.096 KM (0.06 MILES) TO THE JCT. WITH "EAST CHERT STREET" ON THE RIGHT AND A GRAVEL ENTRANCE ON THE LEFT, TURN LEFT ON THE GRAVEL ROAD AND TRAVEL PARALLEL TO THE RAILROAD TRACKS FOR 0.25 KM (0.16 MILES) TO THE STATION ON THE LEFT BETWEEN THE GRAVEL ROAD AND THE RAILROAD TRACKS. THE STATION IS 6.60 METERS SOUTHEAST OF THE SOUTHERN MOST RAIL OF THE SOUTHERN MOST TRACK, 28.4 METERS SOUTH OF THE SOUTHEAST END OF A RAILROAD BRIDGE RETAINING WALL AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "520001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	520001
Geodetic Azimuth	216 30 59.90907
Grid Azimuth	217 06 48.94561

Area Reference Monuments (used for Processing)

Ref Mon # 1	BEECH 1950
Ref Mon # 2	K 204 1960
Ref Mon # 3	NONE

Comments

JOB NO. 070068 USES SAME S.A.F.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520002	6/21/1995	AHTD	OUACHITA	278	070200, 070068

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	500,780.0012
Easting (M)	320,904.6890
Elevation (M)*	38.859
Northing (SFT)	1,642,975.7206
Easting (SFT)	1,052,834.8005
Elevation (SFT)*	127.490

Convergence Angle	0	28	36.5970536
Scale Factor			0.999950780
Elevation Adjust. Factor			0.9999939018
Combined Adjust. Factor			0.9999446821

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	34	20.4300048
Longitude	92	51	7.0459488
Ellipsoid Height (M):	12.666		
Geoid Height (M):	-26.193		

Location Description

THE STATION IS LOCATED AT THE JUNCTION OF U.S. HIGHWAY 278 AND "CASH ROAD" ON THE SOUTHWEST SIDE OF CAMDEN AT A SOUTHWEST ANGLE FROM THE INTERSECTION. THE STATION IS 13.10 METERS SOUTH OF THE SOUTH EDGE OF THE ASPHALT EASTBOUND LANES OF U.S. HIGHWAY 278, 55.60 METERS WEST OF THE CENTER OF "CASH ROAD", AND 0.93 METERS NORTH OF A WITNESS POST SET IN A CHAIN LINK FENCE LINE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520002 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY APPLYING THE VERTCON PROGRAM SHIFT TO THE PREVIOUS NGVD29 ELEVATION. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2" CHAIN LINK FENCE POST	284	3.90	12.8
MK # 2	2" CHAIN LINK FENCE POST	160	3.10	10.2
MK # 3				

AZ Mark Station	520002A
Geodetic Azimuth	327 19 47
Grid Azimuth	327 48 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	Magnolia 2
Ref Mon # 3	AHTD Hope 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520002A	6/21/1995	AHTD	OUACHITA	278	070200, 070068

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	501,070.1512	
Easting (M)	320,722.0170	
Elevation (M)*	38.664	
Northing (SFT)	1,643,927.6544	
Easting (SFT)	1,052,235.4841	
Elevation (SFT)*	126.850	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	34	29.7982452	
Longitude	92	51	14.2228692	
Ellipsoid Height (M):	12.469			
Geoid Height (M):	-26.195			

Convergence Angle	0	28	40.6139091
Scale Factor	0.999950417		
Elevation Adjust. Factor	0.9999939324		
Combined Adjust. Factor	0.9999443497		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THIS STATION FROM THE JUNCTION OF U.S. HIGHWAY 278 AND "CASH ROAD" ON THE SOUTHWEST SIDE OF CAMDEN, GO WEST ON U.S. HIGHWAY 278 0.24 MILES TO THE STATION ON THE RIGHT IN FRONT OF "BROOKSHIRES" GROCERY STORE. THE STATION IS 20.0 METERS NORTH OF THE CENTERLINE OF THE WEST BOUND LANES OF U.S. HIGHWAY 278, 76.70 METERS WEST OF AN ACCESS ROAD TO THE GROCERY STORE AND 0.94 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520002A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT USING THE VERTCON PROGRAM SHIFT TO THE PREVIOUS NGVD29 ELEVATION. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	520002
Geodetic Azimuth	147 19 43
Grid Azimuth	147 48 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	Magnolia 2
Ref Mon # 3	AHTD Hope 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520003	4/22/2002	AHTD	OUACHITA	79	070200

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	499,084.7602
Easting (M)	320,448.0240
Elevation (M)*	
Northing (SFT)	1,637,413.9174
Easting (SFT)	1,051,336.5587
Elevation (SFT)*	

Convergence Angle	0	28	46.1996479
Scale Factor			0.999952956
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	33	25.2824184
Longitude	92	51	24.2029152
Ellipsoid Height (M):	11.846		
Geoid Height (M):	-26.191		

Location Description

TO REACH THE STATION FROM THE A.H.T.D. DISTRICT 7 HEADQUARTERS ENTRANCE IN CAMDEN, GO NORTH ON U.S. HIGHWAY 79 FOR 1.78 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.40 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 79, 10.00 METERS SOUTHEAST OF THE CENTER OF A GRAVEL ROAD, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	222	30.00	98.4
MK # 2	TELEPHONE JUNCTION BOX	35	25.40	83.3
MK # 3	LIGHT POLE	2	26.00	85.3

AZ Mark Station	520003A
Geodetic Azimuth	225 16 47
Grid Azimuth	225 45 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	Magnolia 2
Ref Mon # 3	AHTD Hope 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520003A	4/22/2002	AHTD	OUACHITA	79	070200

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	498,681.6882
Easting (M)	320,034.1240
Elevation (M)*	
Northing (SFT)	1,636,091.5054
Easting (SFT)	1,049,978.6218
Elevation (SFT)*	
Convergence Angle	0 28 55.1068767
Scale Factor	0.999953487
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	33	12.0868488
Longitude	92	51	40.1174712
Ellipsoid Height (M):	16.133		
Geoid Height (M):	-26.192		

Location Description

TO REACH THE STATION FROM THE A.H.T.D. DISTRICT 7 HEADQUARTERS ENTRANCE IN CAMDEN, GO NORTH ON U.S. HIGHWAY 79 FOR 1.39 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.20 METERS SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "520003 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	49	10.60	34.8
MK # 2	POWER POLE	225	22.60	74.1
MK # 3				

AZ Mark Station	520003
Geodetic Azimuth	45 16 39
Grid Azimuth	45 45 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	Magnolia 2
Ref Mon # 3	AHTD Hope 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520004	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	483,411.1535	
Easting (M)	296,026.6959	
Elevation (M)*	69.962	
Northing (SFT)	1,585,991.4261	
Easting (SFT)	971,214.2515	
Elevation (SFT)*	229.534	

Convergence Angle	0	37	32.3675205
Scale Factor	0.999976760		
Elevation Adjust. Factor	0.9999890208		
Combined Adjust. Factor	0.9999657811		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	24	48.9113100
Longitude	93	7	4.3076640
Ellipsoid Height (M):	43.636		
Geoid Height (M):	-26.326		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 57S AND 79 IN STEPHENS, GO SOUTH ON HIGHWAY 79 2.95 MILES TO THE STATION MARK ON THE RIGHT, WEST 28.0 FEET OF CENTERLINE OF GRAVEL DRIVE, EAST 64.0 FEET OF COUNTY LINE, NORTH 40.0 FEET OF CENTERLINE OF HIGHWAY 79, SOUTH 29.0 FEET FROM WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "520004 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 2 GUYS	310	7.92	26.0
MK # 2				
MK # 3				

AZ Mark Station	520004A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital Levels from GPS # 140007. Elev. established on GPS #140007 by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520004A	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	483,446.5308	
Easting (M)	296,498.5719	
Elevation (M)*	60.177	
Northing (SFT)	1,586,107.4931	
Easting (SFT)	972,762.3980	
Elevation (SFT)*	197.431	

Convergence Angle	0	37	22.1544357
Scale Factor	0.999976692		
Elevation Adjust. Factor	0.9999905564		
Combined Adjust. Factor	0.9999672486		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	24	50.2264224
Longitude	93	6	46.0599336
Ellipsoid Height (M):	33.856		
Geoid Height (M):	-26.322		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 57S AND 79 IN STEPHENS, GO SOUTH ON HIGHWAY 79 2.65 MILES TO THE STATION MARK ON THE LEFT, EAST 58.0 FEET OF CENTERLINE OF GRAVEL DRIVE, SOUTH 40.0 FEET OF CENTERLINE OF HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "520004A 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER BRICK AND FRAME HOUSE	187	23.47	77.0
MK # 2	NORTHWEST CORNER CONCRETE PAD	145	13.41	44.0
MK # 3				

AZ Mark Station	520004
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital Levels from GPS # 140007. Elev. established on GPS #140007 by S5102 in May of 2008 by 3-Wire Levels from 1st Order NGS BM B 120 under Job #070301.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520005	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	483,178.1667	
Easting (M)	300,557.9784	
Elevation (M)*	75.824	
Northing (SFT)	1,585,227.0352	
Easting (SFT)	986,080.6341	
Elevation (SFT)*	248.766	

Vertical Determined By:	3rd Order - Digital			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	33	24	42.9202764	
Longitude	93	4	8.8423320	
Ellipsoid Height (M):	49.536			
Geoid Height (M):	-26.288			

Convergence Angle	0	35	54.1612083	
Scale Factor	0.999977073			
Elevation Adjust. Factor	0.9999881009			
Combined Adjust. Factor	0.9999651742			

Location Description

TO REACH THE STATION MARK IS LOCATED AT THE INTERSECTION OF STATE HIGHWAY 57S AND 79 IN STEPHENS, SOUTHWEST 109.0 FEET FROM CENTERLINE OF HIGHWAY 57S,SOUTHEAST 37.0 FEET FROM CENTERLINE OF HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "520005 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH GUY AND LIGHT	125	21.43	70.3
MK # 2	NORTHWEST CORNER OF BRICK BUILDING	220	20.97	68.8
MK # 3				

AZ Mark Station	520005A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM Stephens Bolt under Job #070366.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520005A	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	483,580.2447	
Easting (M)	300,858.9730	
Elevation (M)*	67.296	
Northing (SFT)	1,586,546.1862	
Easting (SFT)	987,068.1473	
Elevation (SFT)*	220.786	

Convergence Angle	0	35	47.7320783
Scale Factor	0.999976388		
Elevation Adjust. Factor	0.9999894392		
Combined Adjust. Factor	0.9999658275		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	24	56.0724840
Longitude	93	3	57.3553980
Ellipsoid Height (M):	41.009		
Geoid Height (M):	-26.287		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 0.3 MILES TO THE STATION MARK ON THE RIGHT, WEST 29.8 FEET OF CENTERLINE OF CALDWELL HILL ROAD, EAST 45.8 FEET OF CENTERLINE OF HIGHWAY 79. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "520005A 2011" SET ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	191	5.85	19.2
MK # 2	COMBINATION POLE WITH GUY	28	8.47	27.8
MK # 3				

AZ Mark Station	520005
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM Stephens Bolt under Job #070366.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520006	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	487,300.4582	
Easting (M)	303,071.5882	
Elevation (M)*	62.176	
Northing (SFT)	1,598,751.5866	
Easting (SFT)	994,327.3690	
Elevation (SFT)*	203.991	

Convergence Angle	0	35	0.6233878
Scale Factor			0.999970250
Elevation Adjust. Factor			0.9999902426
Combined Adjust. Factor			0.9999604929

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	26	57.5600208
Longitude	93	2	33.1862460
Ellipsoid Height (M):	35.900		
Geoid Height (M):	-26.276		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 3.1 MILES TO THE STATION MARK ON THE LEFT.NORTHWEST 42.5 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTHEAST 4.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520006 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	520006A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520006A	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	487,661.8340
Easting (M)	303,495.8921
Elevation (M)*	72.228
Northing (SFT)	1,599,937.2004
Easting (SFT)	995,719.4393
Elevation (SFT)*	236.967
Convergence Angle	0 34 51.5079548
Scale Factor	0.999969668
Elevation Adjust. Factor	0.9999886653
Combined Adjust. Factor	0.9999583336

Vertical Determined By:	3rd Order - Digital
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	33 27 9.4292604
Longitude	93 2 16.8996912
Ellipsoid Height (M):	45.953
Geoid Height (M):	-26.274

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 3.45 MILES TO THE STATION MARK ON THE LEFT.NORTH 41.0 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTH 17.8 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520006A 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE WITH LIGHT AND GUY	244	66.00	216.5
MK # 2	SOUTHEAST CORNER OF MT. ZINA BAPTIS T CHURCH	303	70.60	231.6
MK # 3				

AZ Mark Station	520006
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520007	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	490,184.8783
Easting (M)	306,996.1265
Elevation (M)*	84.595
Northing (SFT)	1,608,214.8882
Easting (SFT)	1,007,203.1250
Elevation (SFT)*	277.542
Convergence Angle	0 33 36.1877044
Scale Factor	0.999965694
Elevation Adjust. Factor	0.9999867244
Combined Adjust. Factor	0.9999524189

Vertical Determined By:	3rd Order - Digital
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	33 28 32.4519636
Longitude	93 0 2.3249124
Ellipsoid Height (M):	58.344
Geoid Height (M):	-26.251

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 6.2 MILES TO THE STATION MARK ON THE LEFT.NORTH 25.6 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTH 37.3 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520007 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	315	12.80	42.0
MK # 2				
MK # 3				

AZ Mark Station	520007A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520007A	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	490,320.1204
Easting (M)	307,463.3104
Elevation (M)*	84.225
Northing (SFT)	1,608,658.5950
Easting (SFT)	1,008,735.8775
Elevation (SFT)*	276.328

Convergence Angle	0	33	26.0889947
Scale Factor	0.999965482		
Elevation Adjust. Factor	0.9999867826		
Combined Adjust. Factor	0.9999522650		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	28	36.9894324
Longitude	92	59	44.2815360
Ellipsoid Height (M):	57.977		
Geoid Height (M):	-26.247		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 6.5 MILES TO THE STATION MARK ON THE LEFT.NORTH 23 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTH 57.6 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520007A 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	57	21.95	72.0
MK # 2				
MK # 3				

AZ Mark Station	520007
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520008	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	492,051.9298
Easting (M)	311,501.9489
Elevation (M)*	81.010
Northing (SFT)	1,614,340.3730
Easting (SFT)	1,021,985.9773
Elevation (SFT)*	265.779

Convergence Angle	0	31	58.8903841
Scale Factor			0.999962831
Elevation Adjust. Factor			0.9999872871
Combined Adjust. Factor			0.9999501186

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	33	29	34.4469228
Longitude	92	57	8.4836772
Ellipsoid Height (M):	54.790		
Geoid Height (M):	-26.220		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 9.3 MILES TO THE STATION MARK ON THE LEFT.NORTH WEST 44 FEET FROM CENTERLINE OF HIGHWAY 79, SOUTH EAST 1.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520008 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	520008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520008A	9/14/2011	AHTD	OUACHITA	79	070366

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	492,258.2192
Easting (M)	311,847.4356
Elevation (M)*	77.320
Northing (SFT)	1,615,017.1742
Easting (SFT)	1,023,119.4616
Elevation (SFT)*	253.676
Convergence Angle	0 31 51.4411251
Scale Factor	0.999962522
Elevation Adjust. Factor	0.9999878660
Combined Adjust. Factor	0.9999503885

Vertical Determined By:	3rd Order - Digital
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	33 29 41.2467036
Longitude	92 56 55.1740776
Ellipsoid Height (M):	51.102
Geoid Height (M):	-26.219

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 57S AND 79 IN STEPHENS, GO NORTH ON HIGHWAY 79 FOR 9.55 MILES TO THE STATION MARK ON THE RIGHT.SOUTH EAST 47 FEET FROM CENTERLINE OF HIGHWAY 79, NORTH WEST 1.0 FEET OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH DISK STAMPED "520008A 2011" SET ON TOP OF A 2.0 FOOT REBAR DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	520008
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. established by S5112 in January of 2012 by Digital levels from 1st Order NGS BM's G 204 & K 204 under Job #070366.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520009	3/12/2024	AHTD	OUACHITA	79B	07X275

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83(2011)

Northing (M)	503,556.5281	0.0010
Easting (M)	324,128.9511	0.0010
Elevation (M)*	35.827	0.0091
Northing (SFT)	1,652,085.0426	
Easting (SFT)	1,063,413.0671	
Elevation (SFT)*	117.542	

Convergence Angle	0	27	27.1054548	
Scale Factor			0.999947345	
Elevation Adjust. Factor			0.9999943776	
Combined Adjust. Factor			0.9999417229	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	33	35	51.4035456	
Longitude	92	49	2.8852284	
Ellipsoid Height (M):			9.536	0.0050
Geoid Height (M):			-26.286	

Location Description

To reach from the intersection of Highway 7 and Highway 79B, near Camden, Ouachita County, Arkansas; the point is on the Southwest corner of the intersection. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 520009, 2024 set just below ground surface on top of a 5/8in rebar 4ft in length. The station is 9ft Northwest of a witness post, 28ft Northwest of the centerline of Highway 79B, and 77ft Southwest of the centerline of Highway 7.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW CORNER OF NE BRIDGE END	27	22.00	72.2
MK # 2				
MK # 3				

AZ Mark Station	520009A
Geodetic Azimuth	310 24 11.1
Grid Azimuth	310 51 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	AREL

Comments

ELEV EST. BY STATIC OBS ON GPS 520009A HOLDING BM G 338
DIGITAL LEVELS WERE RAN HOLDING ELEV DERIVED ON GPS 520009A DURING JOB 07X275 BY CREW S5102 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520009A	3/12/2024	AHTD	OUACHITA	7	07X275

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD83(2011)	
Northing (M)	503,810.1526	0.0010
Easting (M)	323,835.7714	0.0010
Elevation (M)*	32.582	
Northing (SFT)	1,652,917.1423	
Easting (SFT)	1,062,451.1933	
Elevation (SFT)*	106.896	

Convergence Angle	0	27	33.5140389
Scale Factor	0.999947047		
Elevation Adjust. Factor	0.9999948869		
Combined Adjust. Factor	0.9999419341		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	35	59.5595292
Longitude	92	49	14.3354532
Ellipsoid Height (M):	6.294		0.0050
Geoid Height (M):	-26.288		

Location Description

To reach from the intersection of Hihway 7 and Highway 79B near Camden, Ouachita County, Arkansas; travel North along Highway 7 for 0.2 miles to the station on the left. The station is a standard 2.5in aluminum ARDOT GPS cap stamped 520009A, 2024 set just below ground surface on top of a 5/8in rebar 4ft in length. The station is 69ft Northeast of a witness post and 30ft Southwest of the centerline of Highway 7.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	HISTORICAL MARKER	290	73.00	239.5
MK # 2				
MK # 3				

AZ Mark Station	520009
Geodetic Azimuth	130 24 11.1
Grid Azimuth	130 51 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	AREL

Comments

ELEV EST. BY STATIC OBS HOLDING BM G 338 DURING JOB 07X275 BY CREW S5102 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520010	9/4/2024	ARDOT	OUACHITA	79B	070621

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	505,508.8750	0.0020
Easting (M)	328,035.5664	0.0020
Elevation (M)*		
Northing (SFT)	1,658,490.3674	
Easting (SFT)	1,076,230.0208	
Elevation (SFT)*		

Convergence Angle	0	26	2.6200903	
Scale Factor	0.999945032			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	33	36	55.7593560
Longitude	92	46	31.9351296
Ellipsoid Height (M):	9.708	0.0040	
Geoid Height (M):	-26.257	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 79B, GO WEST ON 79B FOR 0.2 MILES TO THE 79 SOUTH ON RAMP FOR EAST BOUND TRAFFIC ON 79B TO USE. THE MARK IS ON THE LEFT/NORTH, THE STATION IS 30.6' NORTH OF THE CENTERLINE OF 79B ON RAMP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2024 520010" SET ON TOP OF A 4' BY 5/8" REBAR DRIVEN 0.10" BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	520010A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	AREL
Ref Mon # 3	ARGS, 520009, 520009A

Comments

CONSTRAINED TO POSITIONS ON GPS POINTS 520009 & 520009A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520010A	9/4/2024	ARDOT	OUACHITA	79B	070621

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	505,260.3175	0.0020
Easting (M)	327,810.9859	0.0020
Elevation (M)*		
Northing (SFT)	1,657,674.8917	
Easting (SFT)	1,075,493.2096	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	33	36	47.6363664	
Longitude	92	46	40.5743484	
Ellipsoid Height (M):	9.719	0.0040		
Geoid Height (M):	-26.259	0.0040		

Convergence Angle	0	26	7.4553806
Scale Factor	0.999945319		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 79 AND 79B, GO WEST ON 79B FOR 0.2 MILES TO THE MARK ON THE RIGHT/NORTH, THE STATION IS 35.5' NORTH OF THE CENTERLINE OF 79B, AND 25.0' SOUTH OF THE CENTERLINE OF THE 79B WEST ON RAMP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2024 520010A" SET ON TOP OF A 4' BY 5/8" REBAR DRIVEN 0.10" BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	520010
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	AREL
Ref Mon # 3	ARGS, 520009, 520009A

Comments

CONSTRAINED TO POSITIONS ON GPS POINTS 520009 & 520009A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530001	12/23/1991	AHTD	PERRY	10	R80025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	77,149.2941	
Easting (M)	304,379.3150	
Elevation (M)*		
Northing (SFT)	253,113.9757	
Easting (SFT)	998,617.8026	
Elevation (SFT)*		

Convergence Angle	0	36	34.9802773
Scale Factor	0.999983390		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	1	26.9376348	
Longitude	93	2	52.0975536	
Ellipsoid Height (M):	82.398			
Geoid Height (M):	-29.396			

Location Description

AT CASA, TURN NORTH AT THE MAIN INTERSECTION AND GO TO THE R/R CROSSING AND THE STATION ON RIGHT. THE STATION IS 40 FEET EAST OF THE CENTERLINE OF THE STREET, 17 FEET SOUTH OF THE CENTERLINE OF THE R/R TRACK, 115 FEET NORTH OF AN EAST-WEST STREET AND 1.70 FEET SOUTH OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEGRAPH POLE	27	23.43	76.9
MK # 2	NBC IN POWER POLE	230	28.32	92.9
MK # 3	NBC IN R/R CROSSING SIGN POLE	290	20.20	66.3

AZ Mark Station	91530001A AZ. MK.
Geodetic Azimuth	83 33 08
Grid Azimuth	84 09 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91530001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530001A	12/23/1991	AHTD	PERRY	10	R80025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	77,181.5140	
Easting (M)	304,694.4410	
Elevation (M)*		
Northing (SFT)	253,219.6838	
Easting (SFT)	999,651.6785	
Elevation (SFT)*		

Convergence Angle	0	36	27.7549252
Scale Factor	0.999983336		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	1	28.0917588
Longitude	93	2	39.6807072
Ellipsoid Height (M):	80.283		
Geoid Height (M):	-29.390		

Location Description

AT CASA, TURN NORTH AT THE MAIN INTERSECTION AND GO TO THE FIRST STREET ON THE RIGHT, TURN AND GO EAST 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 114 FEET NORTH OF CENTERLINE OF THE STREET, 15 FEET SOUTH OF THE R/R TRACK, 45 FEET WEST OF A NORTH-SOUTH STREET AND 1.6 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEGRAPH POLE	280	29.16	95.7
MK # 2	NBC IN R/R CROSSING SIGN	24	15.19	49.8
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91530001
Geodetic Azimuth	263 33 15
Grid Azimuth	264 09 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91530001A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530002	12/23/1991	AHTD	PERRY	10	R80025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	76,962.5830	
Easting (M)	308,188.7940	
Elevation (M)*		

Northing (SFT)	252,501.4077	
Easting (SFT)	1,011,116.0683	
Elevation (SFT)*		

Convergence Angle	0	35	7.4958135
Scale Factor	0.999983615		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	1	22.1684052
Longitude	93	0	21.7545480
Ellipsoid Height (M):	85.128		
Geoid Height (M):	-29.318		

Location Description

FROM THE YELL AND PERRY COUNTY LINE, GO EAST ON HWY. 10 FOR 5.90 MILES TO THE STATION ON THE RIGHT. THE STATION IS 39 FEET SOUTH OF THE CENTERLINE OF HWY. 10, 125 FEET SOUTH OF THE CENTERLINE OF THE R/R TRACK, 215 FEET SOUTHWEST OF A CROSSDRAIN, 135 FEET NORTHEAST OF THE NORTHEAST CORNER OF A BRICK HOUSE AND 1.75 FEET NORTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	93	17.70	58.1
MK # 2	NBC IN POWER POLE	36	30.42	99.8
MK # 3	NBC IN POWER POLE	266	90.76	297.8

AZ Mark Station	91530002A AZ. MK.
Geodetic Azimuth	92 24 07
Grid Azimuth	92 59 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91530002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530002A	12/23/1991	AHTD	PERRY	10	R80025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	76,947.6131
Easting (M)	308,475.6720
Elevation (M)*	
Northing (SFT)	252,452.2940
Easting (SFT)	1,012,057.2672
Elevation (SFT)*	
Convergence Angle	0 35 0.9075809
Scale Factor	0.999983633
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 1 21.7776180
Longitude	93 0 10.4325984
Ellipsoid Height (M):	86.531
Geoid Height (M):	-29.312

Location Description

FROM THE YELL AND PERRY COUNTY LINE, GO EAST 6.08 MILES TO THE STATION ON RIGHT. THE STATION IS 121 FEET SOUTH CENTERLINE OF HWY. 10, 213 FEET SOUTH OF THE CENTERLINE OF THE R/R TRACK, 112 FEET SOUTHWEST OF THE SOUTH END OF AN 18" RCP CROSSDRAIN, 165 FEET SOUTHEAST OF A FIELD ENTRANCE AND 80.69 FEET SOUTH OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF GATE POST	282	48.17	158.0
MK # 2	NBC IN TOP OF BRACE POST	24	35.20	115.5
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91530002
Geodetic Azimuth	272 24 13
Grid Azimuth	272 59 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91530002A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530003	12/23/1991	AHTD	PERRY	10	R80025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	78,239.8650	
Easting (M)	314,516.9130	
Elevation (M)*		
Northing (SFT)	256,691.9571	
Easting (SFT)	1,031,877.5721	
Elevation (SFT)*		

Convergence Angle	0	32	42.5239839
Scale Factor	0.999981588		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	2	5.6404068
Longitude	92	56	12.6188772
Ellipsoid Height (M):	96.215		
Geoid Height (M):	-29.213		

Location Description

AT THE JCT. OF HWY. 10 AND HWY. 324 THE STATION IS 41 FEET SOUTH OF CENTERLINE OF HWY. 10, 147 FEET NORTHEAST OF THE NORTHEAST CORNER OF A WHITE ONE STORY FRAME HOUSE, 15 FEET NORTHEAST OF A FENCE CORNER AND 2.3 FEET NORTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	91	7.11	23.3
MK # 2	NBC IN COMBINATION POLE	269	9.52	31.2
MK # 3	NBC IN COMBINATION POLE	336	25.30	83.0

AZ Mark Station	91530003A AZ. MK.
Geodetic Azimuth	4 34 08
Grid Azimuth	5 06 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91530003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530003A	12/23/1991	AHTD	PERRY	324	R80025

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	78,512.4451	
Easting (M)	314,541.3080	
Elevation (M)*		
Northing (SFT)	257,586.2470	
Easting (SFT)	1,031,957.6080	
Elevation (SFT)*		

Convergence Angle	0	32	42.0234791
Scale Factor	0.999981181		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	2	14.4928176
Longitude	92	56	11.7587544
Ellipsoid Height (M):	91.919		
Geoid Height (M):	-29.217		

Location Description

FROM THE JCT. OF HWY. 10 AND HWY. 324, GO NORTH ON HWY. 324 TO A R/R CROSSING, THEN NORTH 130 FEET TO THE STATION ON THE RIGHT. THE STATION IS 46 FEET EAST OF THE CENTERLINE OF HWY. 324, 35 FEET NORTHEAST OF A FIELD ENTRANCE, 376 FEET SOUTHWEST OF A CROSSDRAIN AND 4.92 FEET EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN GATE POST	189	7.05	23.1
MK # 2	NBC IN GATE POST	198	21.71	71.2
MK # 3	NBC IN GATE POST	270	26.23	86.0

AZ Mark Station	91530003
Geodetic Azimuth	184 34 09
Grid Azimuth	185 06 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91530003A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530004A	10/19/1994	AHTD	PERRY	10	R80026

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	78,204.2581	
Easting (M)	318,143.2710	
Elevation (M)*	119.601	
Northing (SFT)	256,575.1368	
Easting (SFT)	1,043,775.0483	
Elevation (SFT)*	392.391	

Convergence Angle	0	31	19.2671794
Scale Factor			0.999981591
Elevation Adjust. Factor			0.9999812311
Combined Adjust. Factor			0.9999628224

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	2	5.5808772
Longitude	92	53	49.5411504
Ellipsoid Height (M):	90.463		
Geoid Height (M):	-29.138		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN ADONA GO WEST ON HWY-10 FOR 0.048 KM.(0.03 MI.) TO A GRAVEL ROAD LEADING SOUTH, TURN LEFT AND SOUTH ON GRAVEL ROAD FOR0.32 KM. (0.20 MI.) TO THE STATION ON THE RIGHT, 7.50 METERS WEST OF THE CENTER OF THEGRAVEL ROAD AND 9.26 METERS NORTH OF A WITNESS POST SET BESIDE A COMBINATION POLE.THE STATION MARK IS A STANDARD CAP STAMPED "530004A" SET ON TOP OF AN IRON ROD1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TEN INCH PINE TREE	205	18.20	59.7
MK # 2	TELEPHONE JUNCTION BOX	171	9.90	32.5
MK # 3	NONE			

AZ Mark Station	530004
Geodetic Azimuth	14 01 17.57588
Grid Azimuth	14 32 36.82905

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	91530003 AHTD

Comments

Cross Reference Job: R80025 HORIZIONTAL DISTANCE BETWEEN 530004 & 530004A BY E.D.M. = 375.546 METERS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530005	10/19/1994	AHTD	PERRY	10	R80026

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	79,301.8221	
Easting (M)	322,978.7680	
Elevation (M)*	101.538	
Northing (SFT)	260,176.0613	
Easting (SFT)	1,059,639.5080	
Elevation (SFT)*	333.129	

Convergence Angle	0	29	28.4754621
Scale Factor	0.999979900		
Elevation Adjust. Factor	0.9999840656		
Combined Adjust. Factor	0.9999639660		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	2	42.5831388
Longitude	92	50	39.1443756
Ellipsoid Height (M):	72.481		
Geoid Height (M):	-29.057		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-10 & HWY-9 IN THE SMALL TOWN OF PERRY GO WEST ON HWY-10 FOR 4.79 KM. (2.98 MI.) TO THE STATION ON THE RIGHT, 16.0 METERSNORTH OF THE CENTERLINE OF HWY-10, 18.30 METERS WEST OF A GRAVEL ROAD LEADING NORTH, 7.0 METERS SOUTH OF THE SOUTH RAIL OF THE RAILROAD TRACK AND 4.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "530005" SETON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FOUR INCH METAL RAIL ROAD XING SIGN POST	75	23.00	75.5
MK # 2	POWER POLE	93	28.40	93.2
MK # 3	NONE			

AZ Mark Station	530005A
Geodetic Azimuth	257 23 24.90165
Grid Azimuth	257 52 53.45314

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	91530003 AHTD

Comments

Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 530005 & 530005A = 514.004 METERS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530006	10/19/1994	AHTD	PERRY	9	R80026

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	79,659.1961	
Easting (M)	327,666.1250	
Elevation (M)*		
Northing (SFT)	261,348.5459	
Easting (SFT)	1,075,017.9451	
Elevation (SFT)*		

Convergence Angle	0	27	40.9204857
Scale Factor	0.999979320		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	2	55.4440560
Longitude	92	47	34.3099752
Ellipsoid Height (M):	61.115		
Geoid Height (M):	-28.966		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN PERRY GO EAST ON HWY-10 FOR 0.08 KM.(0.05 MI.) TO THE JUNCTION OF HWY-10 & HWY-9, THE STATION IS NORTHEAST OF THIS JUNCTION ACROSS HWY-9 AND 7.60 METERS SOUTH OF THE SOUTH RAIL OF A SPUR TRACK,19.00 METERS EAST OF THE CENTERLINE OF HWY-9, 36.00 METERS NORTH OF THE CENTER OF CHOCTAW STREET, 32.50 METERS NORTHEAST OF F.A.P. MARKER # 69 AND 0.59 METERS SOUTHOF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "530006" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RAILROAD SIGNAL LIGHT POLE	264	13.96	45.8
MK # 2	NORTHWEST CORNER OF A CHAIN LINK FENCE	122	22.40	73.5
MK # 3	NONE			

AZ Mark Station	530006A
Geodetic Azimuth	185 05 08.33420
Grid Azimuth	185 32 49.26212

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	91530003 AHTD

Comments

Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 530006 & 530006A = 556.246

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530006A	10/19/1994	AHTD	PERRY	9	R80026

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	79,105.5721
Easting (M)	327,612.3590
Elevation (M)*	
Northing (SFT)	259,532.1978
Easting (SFT)	1,074,841.5478
Elevation (SFT)*	
Convergence Angle	0 27 42.0525670
Scale Factor	0.999980132
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	2	37.4653680
Longitude	92	47	36.2554692
Ellipsoid Height (M):	69.206		
Geoid Height (M):	-28.958		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN PERRY GO EAST ON HWY-10 TO THE JUNCTION WITH HWY-9, GO RIGHT (SOUTH) ON HWY-9 FOR 0.49 KM. (0.31 MI.) TO THE STATION

ON THE RIGHT. 11.20 METERS WEST OF THE CENTERLINE OF HWY-9, 15.20 METERS NORTH OF THE CENTER OF SIXTH AVENUE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK ISA STANDARD CAP STAMPED "530006A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG ANDDRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	184	23.00	75.5
MK # 2	CENTER OF BOX CULVERT HEADWALL	40	10.00	32.8
MK # 3	TEN INCH HOLLY BUSH	285	24.00	78.7

AZ Mark Station	530006
Geodetic Azimuth	5 05 07.21701
Grid Azimuth	5 32 49.262115

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	91530003 AHTD

Comments

Cross Reference Job: R80025 HORIZONTAL DISTANCE BY E.D.M. FROM 530006 TO 530006A = 556.246 METERS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530007	11/7/1994	AHTD	PERRY	10	080051

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	60,937.5620	
Easting (M)	329,942.1990	
Elevation (M)*	121.981	
Northing (SFT)	199,925.9847	
Easting (SFT)	1,082,485.3646	
Elevation (SFT)*	400.199	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	34	52	48.5275260	
Longitude	92	45	58.7498184	
Ellipsoid Height (M):	93.459			
Geoid Height (M):	-28.522			

Convergence Angle	0	26	45.3141138
Scale Factor	1.000010886		
Elevation Adjust. Factor	0.9999808576		
Combined Adjust. Factor	0.9999917434		

Location Description

FROM THE JCT. OF HWY. 9 AND HWY. 10 IN WILLIAMS JUNCTION SOUTH OF PERRYVILLE, GO EAST ON HWY. 10 FOR 0.69 KM (0.43 MILES) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS NORTH OF THE CENTERLINE OF HWY. 10 AND 1.13 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "530007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	10" PINE TREE	97	19.30	63.3
MK # 2	6" WILLOW OAK	180	22.70	74.5
MK # 3	4" SHRUB	282	16.50	54.1

AZ Mark Station	530007A
Geodetic Azimuth	104 29 27.42568
Grid Azimuth	104 56 12.5980

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	530006
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530007A	11/7/1994	AHTD	PERRY	10	080051

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	60,746.6990	
Easting (M)	330,657.6640	
Elevation (M)*	124.069	
Northing (SFT)	199,299.7950	
Easting (SFT)	1,084,832.6860	
Elevation (SFT)*	407.050	

Convergence Angle	0	26	28.8868137	
Scale Factor	1.000011241			
Elevation Adjust. Factor	0.9999805299			
Combined Adjust. Factor	0.9999917707			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	34	52	42.5139564	
Longitude	92	45	30.5193240	
Ellipsoid Height (M):	95.565			
Geoid Height (M):	-28.504			

Location Description

FROM THE JCT. OF HWY. 9 AND HWY. 10 IN WILLIAMS JUNCTION SOUTH OF PERRYVILLE, GO EAST ON HWY. 10 FOR 1.40 KM (0.87 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.45 METERS SOUTH OF THE CENTERLINE OF HWY. 10, 9.70 METERS EAST OF A FIELD ENTRANCE AND 1.0 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "530007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	4" STEEL GATE POST	270	6.55	21.5
MK # 2	CENTER OF CONCRETE HEADWALL	310	8.00	26.2
MK # 3	NONE			

AZ Mark Station	530007
Geodetic Azimuth	284 29 43.56929
Grid Azimuth	284 56 12.5980

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	530006
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530009	11/7/1994	AHTD	PERRY	9	080051

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	65,733.2511	
Easting (M)	326,589.7810	
Elevation (M)*	201.171	
Northing (SFT)	215,659.8413	
Easting (SFT)	1,071,486.6398	
Elevation (SFT)*	660.009	

Convergence Angle	0	28	3.0251750
Scale Factor	1.000002025		
Elevation Adjust. Factor	0.9999684307		
Combined Adjust. Factor	0.9999704556		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	55	23.2761432
Longitude	92	48	12.2971248
Ellipsoid Height (M):	172.465		
Geoid Height (M):	-28.706		

Location Description

FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 0.997 KM (0.62 MILES) TO THE STATION ON THE RIGHT ON TOP OF A POND LEVEE NEAR THE CENTER BY THE DRAIN OUTLET. THE STATION IS ABOUT 2.50 METERS WEST OF THE CENTER OF THE LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "530009" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	8" WOODEN POST	253	4.60	15.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	530009A
Geodetic Azimuth	142 10 00.92558
Grid Azimuth	142 38 03.91696

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	530006
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530010	3/11/1998	AHTD	PERRY	60	80122, 080676

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	82,648.9467	0.0020
Easting (M)	350,383.3942	0.0020
Elevation (M)*		
Northing (SFT)	271,157.4193	
Easting (SFT)	1,149,549.5191	
Elevation (SFT)*		

Convergence Angle	0	18	59.6820300
Scale Factor	0.999974854		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	4	37.4645136
Longitude	92	32	38.5560024
Ellipsoid Height (M):	55.965	0.0080	
Geoid Height (M):	-28.111	0.0080	

Location Description

THE STATION IS LOCATED ABOUTH 8.6 KM (5.34 MI) WEST OF CONWAY ON THE WEST SIDE OF THE ARKANSAS RIVER IN THE TOAD SUCK PARK. THE STATION IS 68.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 60, 7.750 METERS SOUTH OF THE EXTENDED CENTER OF A CONCRETE SIDEWALK, 3.650 METERS EAST OF THE EAST EDGE OF A CONCRETE SIDEWALK AND 1.320 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 50mm CAP STAMPED "AHTD GPS 530010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	4	37.4646180
Longitude	92	32	38.5569564
Ellipsoid Height:	56.144		
Grid Northing (Meters)	82,648.9501		
Grid Easting (Meters)	350,383.3700		

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	METAL LIGHT POLE	354	2.20	7.2
MK # 2	METAL SUPPORT POST TO TRASH CAN	279	8.00	26.2
MK # 3	0.65 METER ELM TREE	143	24.80	81.4

AZ Mark Station	230009
Geodetic Azimuth	106 12 18.38932
Grid Azimuth	106 31 17.99262

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR (ROCKPORT)
Ref Mon # 2	ARRV (PJTC CAMPUS)
Ref Mon # 3	ARSC (EARNHART HALE)

Comments

SUPERCEDED GEOID HT. WAS -27.963m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530011	11/13/1998	AHTD	PERRY	9	8825

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	65,492.3530	
Easting (M)	326,783.6170	
Elevation (M)*		
Northing (SFT)	214,869.4948	
Easting (SFT)	1,072,122.5834	
Elevation (SFT)*		

Convergence Angle	0	27	58.5364863
Scale Factor	1.000002456		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	55	15.5104788
Longitude	92	48	4.5832644
Ellipsoid Height (M):	175.773		
Geoid Height (M):	-27.923		

Location Description

FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 1.29 KM (0.80 MILES) TO THE STATION ON THE LEFT. THE STATION IS 18.10 METERS EAST-NORTHEAST OF THE CENTER OF STATE HIGHAY 9 AND 2.60 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530011 1998" SET ON TOP OF AN IRON ROD 0.63 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER FENCE POST	128	17.40	57.1
MK # 2	TELEPHONE JUNCTION BOX	135	28.75	94.3
MK # 3				

AZ Mark Station	530011A
Geodetic Azimuth	318 54 30.23052
Grid Azimuth	319 22 28.80326

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	PJTC CAMPUS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530011A	11/13/1998	AHTD	PERRY	9	8825

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	65,717.4310
Easting (M)	326,590.5290
Elevation (M)*	
Northing (SFT)	215,607.9382
Easting (SFT)	1,071,489.0939
Elevation (SFT)*	
Convergence Angle	0 28 3.0050687
Scale Factor	1.000002053
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 55 22.7629956
Longitude	92 48 12.2625720
Ellipsoid Height (M):	173.310
Geoid Height (M):	-27.935

Location Description

FROM THE "OUACHITA NATIONAL FOREST WINONA WORK CENTER" IN THORNBURG JUST SOUTH OF PERRYVILLE, GO SOUTH ON HWY. 9 FOR 0.997 KM (0.62 MILES) TO THE STATION ON THE RIGHT ON TOP OF A POND LEVEE NEAR THE CENTER BY THE DRAIN OUTLET. THE STATION IS ABOUT 45.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 9, 2.50 METERS WEST OF THE CENTER OF THE LEVEE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	530011
Geodetic Azimuth	138 54 25.83441
Grid Azimuth	139 22 28.80326

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	PJTC CAMPUS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530012	11/13/1998	AHTD	PERRY	9	8825,080446

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,967.0432	0.0010
Easting (M)	327,381.9655	0.0020
Elevation (M)*	108.613	
Northing (SFT)	229,550.2076	
Easting (SFT)	1,074,085.6651	
Elevation (SFT)*	356.341	

Convergence Angle	0	27	45.6479166	
Scale Factor			0.999994613	
Elevation Adjust. Factor			0.9999829554	
Combined Adjust. Factor			0.9999775685	

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)	
Latitude	34	57	40.8672576	
Longitude	92	47	42.4344912	
Ellipsoid Height:			80.498	
Grid Northing (Meters)			69,967.0340	
Grid Easting (Meters)			327,381.9560	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	34	57	40.8675600	
Longitude	92	47	42.4341168	
Ellipsoid Height (M):			80.533	0.0020
Geoid Height (M):			-28.080	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60 EAST, LOCATED ON THE NORTH SIDE OF PERRYVILLE, GO SOUTH ON STATE HIGHWAY 9 FOR 5.47 KM (3.40 MI) TO THE JUNCTION OF STATE HIGHWAY 216 ON THE LEFT, CONTINUE SOUTH ON STATE HIGHWAY 9 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 9 AND 0.97 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530012 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IN LINE BRACE POST	167	22.70	74.5
MK # 2	0.20 METER PINE TREE	351	29.65	97.3
MK # 3				

AZ Mark Station	530012
Geodetic Azimuth	178 28 25.05200
Grid Azimuth	178 56 10.69857

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	PJTC CAMPUS

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE.NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412 **NOTE: STATIC RE-DONE ON THIS POINT & ON GPS #530012A IN APRIL 2013 BY S5112 AFTER DISCOVERING BAD COORDINATES ON #530012A (ELEV. FROM DIGITAL

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530012A	11/13/1998	AHTD	PERRY	9	8825,080446

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,630.7587	0.0020
Easting (M)	327,388.2179	0.0040
Elevation (M)*	110.536	
Northing (SFT)	228,446.9142	
Easting (SFT)	1,074,106.1782	
Elevation (SFT)*	362.650	

Convergence Angle	0	27	45.4422330
Scale Factor			0.999995185
Elevation Adjust. Factor			0.9999826536
Combined Adjust. Factor			0.9999778387

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	57	29.9533320
Longitude	92	47	42.0812772
Ellipsoid Height:			82.451
Grid Northing (Meters)			69,630.6440
Grid Easting (Meters)			327,388.2010

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	34	57	29.9570580	
Longitude	92	47	42.0806472	
Ellipsoid Height (M):			82.468	0.0030
Geoid Height (M):			-28.068	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60 EAST, LOCATED ON THE NORTH SIDE OF PERRYVILLE, GO SOUTH ON STATE HIGHWAY 9 FOR 5.47 KM (3.40 MI) TO THE JUNCTION OF STATE HIGHWAY 216 ON THE LEFT, CONTINUE SOUTH ON STATE HIGHWAY 9 FOR 0.56 KM (0.35 MI) TO THE STATION ON LEFT. THE STATION IS 11.35 METERS EAST OF THE CENTER OF STATE HIGHWAY 9 AND 0.93 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530012A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	0.55 METER WILLOW OAK	36	18.00	59.1
MK # 2	IN LINE BRACE POST	183	3.70	12.1
MK # 3				

AZ Mark Station	530012
Geodetic Azimuth	358 28 25.25441
Grid Azimuth	358 56 10.69857

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	PJTC CAMPUS

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE.NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412 **NOTE: STATIC RE-DONE BY S5112 ON THIS POINT & RAN DIGITAL LEVELS FROM GPS 530012 & HELD IT FIXED IN APRIL 2013 & UPDATED ELEV. FOR JOB #080446

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530013A	11/13/1998	AHTD	PERRY	9	8825,080446

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	75,042.0641	
Easting (M)	326,902.4010	
Elevation (M)*	88.981	
Northing (SFT)	246,200.5053	
Easting (SFT)	1,072,512.2939	
Elevation (SFT)*	291.932	

Convergence Angle	0	27	57.5939941	
Scale Factor	0.999986327			
Elevation Adjust. Factor	0.9999860362			
Combined Adjust. Factor	0.9999723634			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	0	25.4214792	
Longitude	92	48	2.9635812	
Ellipsoid Height (M):	60.736			
Geoid Height (M):	-28.243			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60 EAST, LOCATED ON THE NORTH SIDE OF PERRYVILLE, GO SOUTH ON STATE HIGHWAY 9 FOR 0.39 KM (0.24 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS EAST OF THE CENTER OF STATE HIGHWAY 9 AND 1.36 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "530013A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF HEADWALL	6	20.35	66.8
MK # 2	COMBINATION POLE	131	15.40	50.5
MK # 3	NORTHWEST CORNER OF MAC'S SPORTING GOODS	159	15.35	50.4

AZ Mark Station	530013
Geodetic Azimuth	6 19 20.37317
Grid Azimuth	6 47 17.96066

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LR1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	PJTC CAMPUS

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING IN DEC. 1998 BY S5101 FROM NGS 2ND ORDER BENCHMARK "3" LOCATED IN THE SOUTHWEST CORNER OF THE PERRY COUNTY COURTHOUSE.NAVD88 ELEVATION = 91.588 METERS. STATION P.I.D. = FG0412

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530014	9/3/2002	AHTD	PERRY	60	080256,080446

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	96.907	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	317.936	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999847924
Combined Adjust. Factor		#Type!

Vertical Determined By:	LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 113 ABOUT 2 MILES NORTH OF BIGELOW, GO WEST ON STATE HIGHWAY 60 FOR 0.20 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 60 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "530014 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH A 101 PID NUMBER FG0413.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	79	11.50	37.7
MK # 2	SOUTHWEST CORNER BLUE STORAGE BUILDING	352	12.55	41.2
MK # 3				

AZ Mark Station	530014A
Geodetic Azimuth	269 13 56
Grid Azimuth	269 36 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	PJTC CAMPUS
Ref Mon # 2	HEBEPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

ELEVATION WAS RUN BY 3-WIRE LEVEL LOOP FROM NGS POINT A 101

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530014A	9/3/2002	AHTD	PERRY	60	080256

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 60 AND STATE HIGHWAY 113 ABOUT 2 MILES NORTH OF BIGELOW, GO WEST ON STATE HIGHWAY 60 FOR 0.60 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.75 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 60, 1.59 METERS NORTH OF A WHITE BOARD FENCE AND 1.45 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "530014A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	530014
Geodetic Azimuth	89 13 41
Grid Azimuth	89 36 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	PJTC CAMPUS
Ref Mon # 2	HEBEPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530015	2/6/2013	AHTD	Perry	7	080439

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	58,503.9008	0.0020
Easting (M)	299,769.7065	0.0040
Elevation (M)*	164.839	
Northing (SFT)	191,941.5479	
Easting (SFT)	983,494.4454	
Elevation (SFT)*	540.811	

Convergence Angle	0	38	16.0215177	
Scale Factor	1.000016186			
Elevation Adjust. Factor	0.9999741320			
Combined Adjust. Factor	0.9999903176			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	51	20.2991400	
Longitude	93	5	45.7380276	
Ellipsoid Height (M):	136.392			0.0030
Geoid Height (M):	-28.447			0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 2.6 MILES TO THE MARK ON THE LEFT, EAST 25' OF THE CENTERLINE OF THE HIGHWAY AND WEST 58.6' OF A WHITNESS POST. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530015" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	530015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	P777
Ref Mon # 3	ARCM, OKHV

Comments

ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS.
**NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530015A	2/6/2013	AHTD	Perry	7	080439

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	59,150.6446	0.0020
Easting (M)	299,682.8558	0.0040
Elevation (M)*	153.961	

Northing (SFT)	194,063.4065	
Easting (SFT)	983,209.5027	
Elevation (SFT)*	505.120	

Convergence Angle	0	38	18.1759464
Scale Factor	1.000014911		
Elevation Adjust. Factor	0.9999758391		
Combined Adjust. Factor	0.9999907497		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	51	41.2533288
Longitude	93	5	49.4404368
Ellipsoid Height (M):	125.484		0.0030
Geoid Height (M):	-28.477		0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 2.2 MILES TO THE MARK ON THE LEFT, EAST 73.5' OF THE CENTERLINE OF THE HIGHWAY, SOUTH EAST 38.2' OF A WHITNESS POST, AND NORTH WEST 99' OF THE CENTERLINE OF FOREST SERVICE ROAD 86. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530015A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH 2 GUYS	305	11.58	38.0
MK # 2	WEST END OF WINONA FOREST SERVICE SIGN	163	16.15	53.0
MK # 3				

AZ Mark Station	530015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	P777
Ref Mon # 3	ARCM, OKHV

Comments

ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS.
**NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530016	2/6/2013	AHTD	Perry	7	080439,080607

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	60,142.8230	0.0020
Easting (M)	298,457.9471	0.0040
Elevation (M)*	150.762	
Northing (SFT)	197,318.5785	
Easting (SFT)	979,190.7814	
Elevation (SFT)*	494.624	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	52	13.0019736	
Longitude	93	6	38.1010320	
Ellipsoid Height (M):	122.208			0.0040
Geoid Height (M):	-28.553			0.0000

Convergence Angle	0	38	46.4915043
Scale Factor	1.000012998		
Elevation Adjust. Factor	0.9999763411		
Combined Adjust. Factor	0.9999893388		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 1.2 MILES TO THE MARK ON THE RIGHT, WEST 23' OF THE CENTERLINE OF THE HIGHWAY, EAST 25.1' OF A WHITNESS POST, AND SOUTH 31' OF THE CENTERLINE OF HOLLIS TRAIL ROAD. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	281	7.62	25.0
MK # 2				
MK # 3				

AZ Mark Station	530016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	P777
Ref Mon # 3	ARCM, OKHV

Comments

ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS.
**NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530016A	2/6/2013	AHTD	Perry	7	080439,080607

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	60,772.3012	0.0020
Easting (M)	298,450.2575	0.0040
Elevation (M)*	154.014	
Northing (SFT)	199,383.7915	
Easting (SFT)	979,165.5531	
Elevation (SFT)*	505.293	

Convergence Angle	0	38	46.8303610	
Scale Factor	1.000011780			
Elevation Adjust. Factor	0.9999758308			
Combined Adjust. Factor	0.9999876105			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	52	33.4244784	
Longitude	93	6	38.6833608	
Ellipsoid Height (M):	125.435			0.0030
Geoid Height (M):	-28.579			0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 314 AND STATE HIGHWAY 7, NORTH OF HOLLIS, GO SOUTH ON HIGHWAY 7 .8 MILES TO THE MARK ON THE LEFT, EAST 30.5' OF THE CENTERLINE OF THE HIGHWAY AND NORTH 13' OF THE CENTERLINE OF A GRAVEL DRIVE. THE STATION MARK IS A STANDARD 2.5" CAP STAMPED "2013 530016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF A PLASTIC CULVERT	48	2.74	9.0
MK # 2				
MK # 3				

AZ Mark Station	530016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	P777
Ref Mon # 3	ARCM, OKHV

Comments

ELEV. BY S5112 IN FEB. 2013 FROM NGS 2ND ORDER BM N 102 TO NGS 2ND ORDER BM'S M 102 & A 104 USING DIGITAL LEVELS.
**NOTE: ELEV. FROM DIGITAL LEVELS USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530017	5/16/2016	AHTD	Perry	Perry	080507

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	80,552.2250	0.0020
Easting (M)	305,861.6609	0.0020
Elevation (M)*		

Northing (SFT)	264,278.4249	
Easting (SFT)	1,003,481.1325	
Elevation (SFT)*		

Convergence Angle	0	36	1.7740777
Scale Factor	0.999978318		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	3	17.8653204	
Longitude	93	1	55.0323372	
Ellipsoid Height (M):	83.104		0.0040	
Geoid Height (M):	-28.901		0.0040	

Location Description

TO REACH STA FROM JCT OF SR-155 & SR-247 NE OF CASA, GO S ON SR-155 0.8 MI TO STA ON RIGHT JUST PAST THE GRAVEL DW LEADING TO A HOME & CHICKEN HOUSES. 18' N OF C/L. 65' W OF GRAVEL DW. THE STA IS A 2 1/2" ALUM CAP STAMPED "530017 2016" SET ON TOP OF A 2' RBR AND DRIVEN EVEN WITH SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PP	75	110.00	360.9
MK # 2				
MK # 3				

AZ Mark Station	530017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARFY
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530017A	5/16/2016	AHTD	Perry	Perry	080507

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	80,565.0052	0.0020
Easting (M)	305,394.7126	0.0020
Elevation (M)*		
Northing (SFT)	264,320.3546	
Easting (SFT)	1,001,949.1529	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	3	18.1208196	
Longitude	93	2	13.4637252	
Ellipsoid Height (M):	78.908	0.0040		
Geoid Height (M):	-28.913	0.0040		

Convergence Angle	0	36	12.4992863
Scale Factor	0.999978307		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH STA FROM JCT OF SR-155 & SR-247 NE OF CASA, GO S ON SR-155 1.1 MI TO STA ON RIGHT JUST BEFORE THE BRIDGE. 15' N OF C/L. 19' S OF BRB FE. THE STA IS A 2 1/2" ALUM CAP STAMPED "530017A 2016" SET ON TOP OF A 4' RBR AND DRIVEN BELLOW SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE END OF GUARD RAIL	271	60.00	196.9
MK # 2	WV	243	88.00	288.7
MK # 3				

AZ Mark Station	530017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARFY
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530018	5/18/2016	AHTD	PERRY	7	080501

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	52,056.1092	0.0020
Easting (M)	298,283.7371	0.0020
Elevation (M)*	242.506	
Northing (SFT)	170,787.4183	
Easting (SFT)	978,619.2275	
Elevation (SFT)*	795.620	

Convergence Angle	0	38	48.3911820	
Scale Factor	1.000029513			
Elevation Adjust. Factor	0.9999619444			
Combined Adjust. Factor	0.9999914563			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	47	50.5409604	
Longitude	93	6	41.3656488	
Ellipsoid Height (M):	214.307			0.0070
Geoid Height (M):	-28.204			0.0070

Location Description

FROM JCT OF SR-7 & SR-314 IN HOLLIS, GO S ON SR-7 7.1 MI TO STA ON L, JUST PAST THE DRY RUN CREEK BRIDGE. 18' SE OF C/L. STA IS A 2 1/2" ALUM CAP STAMPED "530018 2016" SET

BELLOW SURFACE.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CTR OF E HEADWALL	35	240.00	787.4
MK # 2				
MK # 3				

AZ Mark Station	530018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM C 104 BY S5112 IN MAY 2016 FOR JOB # 080501. CONSTRAINED ELEVATIONS ON ARLR & L 103 IN FINAL NETWORK ADJUSTMENT AS A CHECK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530018A	5/18/2016	AHTD	PERRY	7	080501

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	52,323.5024	0.0020
Easting (M)	298,497.6078	0.0020
Elevation (M)*	235.346	

Northing (SFT)	171,664.6908	
Easting (SFT)	979,320.9016	
Elevation (SFT)*	772.132	

Convergence Angle	0	38	43.5648224
Scale Factor	1.000028936		
Elevation Adjust. Factor	0.9999630679		
Combined Adjust. Factor	0.9999920028		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	47	59.2955592
Longitude	93	6	33.0714972
Ellipsoid Height (M):	207.142	0.0070	
Geoid Height (M):	-28.210	0.0070	

Location Description

FROM JCT OF SR-7 & SR-314 IN HOLLIS, GO S ON SR-7 6.9 MI TO STA ON L, JUST PAST THE DRY RUN CREEK BRIDGE. 20' SE OF C/L. 12' N OF GRAVEL DW. STA IS A 2 1/2" ALUM CAP STAMPED "530018A 2016" SET BELLOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S END OF STEEL GT	82	89.00	292.0
MK # 2	N END OF CMP	47	12.00	39.4
MK # 3				

AZ Mark Station	530018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM C 104 BY S5112 IN MAY 2016 FOR JOB # 080501. CONSTRAINED ELEVATIONS ON ARLR & L 103 IN FINAL NETWORK ADJUSTMENT AS A CHECK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530019	5/11/2020	ARDOT	PERRY	9	080609

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	75,785.9056	0.0030
Easting (M)	327,086.0617	0.0030
Elevation (M)*		

Northing (SFT)	248,640.9253	
Easting (SFT)	1,073,114.8541	
Elevation (SFT)*		

Convergence Angle	0	27	53.5176594
Scale Factor			0.999985162
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	0	49.6069092	
Longitude	92	47	55.9583556	
Ellipsoid Height (M):	81.073			0.0140
Geoid Height (M):	-28.392			0.0140

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60E, IN PERRYVILLE, GO NORTH ON HIGHWAY 9 0.25 MILES TO THE MARK ON THE RIGHT, SOUTHEAST OF THE C/L OF THE HIGHWAY 23.6'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 530019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	220	22.40	73.5
MK # 2	WATER METER	64	20.97	68.8
MK # 3				

AZ Mark Station	530019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARSC, ARFS

Comments

ARFS ONLY USED FOR A VERTICAL CONSTRAINT. ARDQ, ARFY & ARSC ALL USED FOR HORZ. & VERT. CONSTRAINTS IN NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530019A	5/11/2020	ARDOT	PERRY	9	080609

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	76,022.8296	0.0040
Easting (M)	327,356.6314	0.0030
Elevation (M)*		

Northing (SFT)	249,418.2334	
Easting (SFT)	1,074,002.5482	
Elevation (SFT)*		

Convergence Angle	0	27	47.3517815
Scale Factor			0.999984791
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	0	57.3659964
Longitude	92	47	45.3622272
Ellipsoid Height (M):	73.964		0.0150
Geoid Height (M):	-28.393		0.0150

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 9 AND STATE HIGHWAY 60E, IN PERRYVILLE, GO NORTH ON HIGHWAY 9 0.45 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 25.3'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 530019A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	80	21.18	69.5
MK # 2	FENCE CORNER	173	20.57	67.5
MK # 3				

AZ Mark Station	530019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARSC, ARFS

Comments

ARFS ONLY USED FOR A VERTICAL CONSTRAINT. ARDQ, ARFY & ARSC ALL USED FOR HORZ. & VERT. CONSTRAINTS IN NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530020	10/17/2023	ARDOT	Perry	60	080710

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	74,741.2649	0.0020
Easting (M)	325,502.3952	0.0020
Elevation (M)*		
Northing (SFT)	245,213.6333	
Easting (SFT)	1,067,919.1083	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	0	15.2877888	
Longitude	92	48	58.0788648	
Ellipsoid Height (M):	80.211	0.0090		
Geoid Height (M):	-28.396	0.0090		

Convergence Angle	0	28	29.6655295
Scale Factor	0.999986819		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the Junction of Hwy. 60 and Hwy. 9 in Perryville. Go West on Hwy. 60 for 0.9 miles to the station on the right/North. The station is 30.6 ft. North of the centerlineof Hwy. 60 and 76.0 ft. East of a paved driveway. The station mark is a 2 1/2in. cap stamped "530020 2023" set on top of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of Chainlink Gate	262	23.10	75.8
MK # 2	Metal Fence Post	345	5.70	18.7
MK # 3				

AZ Mark Station	530020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARGS, ARLR & ARRV IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530020A	10/17/2023	ARDOT	Perry	60	080710

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	74,857.1613	0.0020
Easting (M)	325,789.8869	0.0020
Elevation (M)*		
Northing (SFT)	245,593.8700	
Easting (SFT)	1,068,862.3206	
Elevation (SFT)*		

Convergence Angle	0	28	23.0900671
Scale Factor	0.999986632		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	0	19.1256984
Longitude	92	48	46.7788608
Ellipsoid Height (M):	71.847	0.0090	
Geoid Height (M):	-28.394	0.0090	

Location Description

To reach from the Junction of Hwy. 60 and Hwy. 9 in Perryville. Go West on Hwy. 60 for 0.7 miles to the station on the Left/South. The station is 20.1 ft. South of the centerlineof Hwy. 60 and 27.8 ft. East of the Southeast corner of the bridge. The station mark is a 2 1/2 in. cap stamped "530020A 2023" set on top of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East end of Guardrail	320	1.25	4.1
MK # 2	FOC Marker	167	3.29	10.8
MK # 3	Center of Manhole	198	11.52	37.8

AZ Mark Station	530020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV

Comments

CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS SITES ARGS, ARLR & ARRV IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530021	11/7/2023	ARDOT	Perry	Trail 86	BR5308

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (2011)	
Northing (M)	63,862.0320	0.0010
Easting (M)	321,341.6471	0.0020
Elevation (M)*		
Northing (SFT)	209,520.6833	
Easting (SFT)	1,054,268.3872	
Elevation (SFT)*		

Convergence Angle	0	30	2.9645944	
Scale Factor	1.000005517			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	54	21.1178988	
Longitude	92	51	38.4143256	
Ellipsoid Height (M):	197.005	0.0090		
Geoid Height (M):	-28.091	0.0090		

Location Description

To reach from the Junction of Trail 86 and Hwy. 9 in Thornburg. Go West on Trail 86 for 3.85 miles to the station on the right/North. The station is 53.0 ft. West of the centerlineof Trail 86 and 101.0 ft. North of the centerline of Trail 86, the station is located in the curve. The station mark is a 2 1/2in. cap stamped "530021 2023" set on top of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	277	3.70	12.1
MK # 2	30" Pine Tree	131	7.30	24.0
MK # 3				

AZ Mark Station	530021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

STATIC DERIVED ELEVATION BASED ON ORTHOMETRIC HTS.
CONSTRAINTS ON ARDOT CORS SITES ARDQ, ARGS, ARLR & ARRV.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530021A	11/7/2023	ARDOT	Perry	Trail 86	BR5308

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	64,085.3327	0.0010
Easting (M)	321,626.4645	0.0020
Elevation (M)*		

Northing (SFT)	210,253.2957	
Easting (SFT)	1,055,202.8256	
Elevation (SFT)*		

Convergence Angle	0	29	56.4810722
Scale Factor	1.000005101		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	54	28.4444028	
Longitude	92	51	27.2723220	
Ellipsoid Height (M):	190.367			0.0090
Geoid Height (M):	-28.094			0.0090

Location Description

To reach from the Junction of Trail 86 and Hwy. 9 in Thornburg. Go West on Trail 86 for 3.65 miles to the station on the Right/North. The station is 30.0 ft. North of the centerline of Trail 86. The station mark is a 2 1/2 in. cap stamped "530021A 2023" set on top of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole W/light	110	8.20	26.9
MK # 2	Service Pole	157	18.90	62.0
MK # 3				

AZ Mark Station	530021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARGS
Ref Mon # 3	ARLR, ARRV

Comments

STATIC DERIVED ELEVATION BASED ON ORTHOMETRIC HTS.
CONSTRAINTS ON ARDOT CORS SITES ARDQ, ARGS, ARLR & ARRV.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540001	8/25/1994	AHTD	PHILLIPS	1	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	614,966.4069
Easting (M)	513,011.4800
Elevation (M)*	67.266
Northing (SFT)	2,017,602.2866
Easting (SFT)	1,683,105.1640
Elevation (SFT)*	220.689
Convergence Angle	0 41 22.4402862
Scale Factor	0.999966849
Elevation Adjust. Factor	0.9999894439
Combined Adjust. Factor	0.9999562932

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 35 55.1731956
Longitude	90 46 4.6210584
Ellipsoid Height (M):	39.754
Geoid Height (M):	-27.512

Location Description

FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 4.892 KM (3.04 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 42.5 METERS SOUTH OF THE JCT. OF HWY. 1 AND HWY. 242 LEADING EAST, 15.8 METERS EAST OF THE CENTERLINE OF HWY. 1 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	109	2.75	9.0
MK # 2	4" METAL SIGN POST	20	6.60	21.7
MK # 3	TELEPHONE JUNCTION BOX	148	5.20	17.1

AZ Mark Station	540001A
Geodetic Azimuth	180 01 22.50163
Grid Azimuth	179 20 00.06132

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	GIL
Ref Mon # 3	RIDDELL

Comments

Cross Reference Job: 110218

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540001A	8/25/1994	AHTD	PHILLIPS	1	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	614,424.4290	
Easting (M)	513,017.7860	
Elevation (M)*	66.337	
Northing (SFT)	2,015,824.1475	
Easting (SFT)	1,683,125.8529	
Elevation (SFT)*	217.641	

Convergence Angle	0	41	22.4355169
Scale Factor	0.999966014		
Elevation Adjust. Factor	0.9999895897		
Combined Adjust. Factor	0.9999556040		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	35	37.5831672
Longitude	90	46	4.6295796
Ellipsoid Height (M):	38.826		
Geoid Height (M):	-27.511		

Location Description

FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO NORTH ON HWY. 1 FOR 4.350 KM (2.70 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 0.584 KM (0.36 MILES) SOUTH OF THE JCT. OF HWY. 1 AND HWY. 242 LEADIING EAST, 14.40 METERS EAST OF THE CENTERLINE OF HWY. 1 AND 0.57 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	540001
Geodetic Azimuth	0 01 22.496803
Grid Azimuth	359 20 00.06132

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	GIL
Ref Mon # 3	RIDDELL

Comments

Cross Reference Job: 110218

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540002	8/25/1994	AHTD	PHILLIPS	49	110384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	25,280.9524	
Easting (M)	512,293.4518	
Elevation (M)*	64.011	
Northing (SFT)	82,942.5913	
Easting (SFT)	1,680,749.4331	
Elevation (SFT)*	210.009	

Convergence Angle	0	42	42.8751037
Scale Factor	1.000095909		
Elevation Adjust. Factor	0.9999899547		
Combined Adjust. Factor	1.0000858627		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	17.6906988
Longitude	90	46	35.6711736
Ellipsoid Height (M):	37.069		
Geoid Height (M):	-26.875		

Location Description

FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO WEST ON HWY. 49 FOR 0.821 KM (0.51 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE ARKANSAS STATE HIGHWAY DEPARTMENT SHOP BUILDING. THE STATION IS 14.0 METERS SOUTH OF THE CENTERLINE OF HWY. 49, 16.2 METERS WEST OF A PAVED DRIVEWAY, 32.0 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.356 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	10" CRABAPPLE TREE	258	12.80	42.0
MK # 2	GAS LINE VALVE	80	7.40	24.3
MK # 3	NORTHEAST CORNER OF METAL BUILDING	152	17.75	58.2

AZ Mark Station	540002A
Geodetic Azimuth	86 16 06.814430
Grid Azimuth	85 33 23.795651

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540002A	8/25/1994	AHTD	PHILLIPS	49	110384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	25,319.6383	
Easting (M)	512,791.3444	
Elevation (M)*	63.234	
Northing (SFT)	83,069.5133	
Easting (SFT)	1,682,382.9358	
Elevation (SFT)*	207.460	

Convergence Angle	0	42	54.2483543
Scale Factor	1.000095818		
Elevation Adjust. Factor	0.9999900766		
Combined Adjust. Factor	1.0000858937		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	18.7447392
Longitude	90	46	16.1261184
Ellipsoid Height (M):	36.302		
Geoid Height (M):	-26.876		

Location Description

FROM THE JCT. OF HWY. 1 AND HWY. 49 IN WALNUT CORNER, GO WEST ON HWY. 49 FOR 0.322 KM (0.20 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 13.0 METERS NORTH OF THE CENTERLINE OF HWY. 49, 26.0 METERS WEST OF A FIELD ENTRANCE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "540002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.356 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	540002
Geodetic Azimuth	266 16 17.90035
Grid Azimuth	265 33 23.79565

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540003	9/28/1998	AHTD	PHILLIPS	49	110333,110536

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	605,228.4909	
Easting (M)	525,913.9210	
Elevation (M)*	66.271	
Northing (SFT)	1,985,653.8072	
Easting (SFT)	1,725,435.9225	
Elevation (SFT)*	217.424	

Convergence Angle	0	46	2.9614046
Scale Factor			0.999952741
Elevation Adjust. Factor			0.9999896000
Combined Adjust. Factor			0.9999423415

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	30	33.8451408	
Longitude	90	37	43.4136504	
Ellipsoid Height (M):	39.388			
Geoid Height (M):	-26.883			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 5.71 KM (3.55 MI) TO THE STATION ON THE RIGHT SET IN FRONT OF THE JOHN DEERE DEALERSHIP. THE STATION IS 168.98 METERS NORTHWEST OF THE CENTER OF LITTLE ROCK ROAD, 118.07 METERS SOUTHEAST OF THE CENTER OF THE ENTRANCE TO THE JOHN DEERE DEALERSHIP, 28.84 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 49 AND 1.64 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540003 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MARK ON TOP OF IRON PIPE FENCE POST	269	2.04	6.7
MK # 2	MARK ON TOP OF IRON PIPE FENCE POST	315	7.39	24.2
MK # 3	MARK ON TOP OF IRON PIPE FENCE POST	166	5.02	16.5

AZ Mark Station	540003A
Geodetic Azimuth	335 12 19.08301
Grid Azimuth	334 26 16.09447

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ADEHO 2 RM 6
Ref Mon # 3	H 349

Comments

ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540003A	9/28/1998	AHTD	PHILLIPS	49	110333

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	605,662.0749	
Easting (M)	525,706.5340	
Elevation (M)*	71.069	
Northing (SFT)	1,987,076.3241	
Easting (SFT)	1,724,755.5203	
Elevation (SFT)*	233.166	

Convergence Angle	0	45	58.5384346
Scale Factor			0.999953311
Elevation Adjust. Factor			0.9999888471
Combined Adjust. Factor			0.9999421586

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	30	48.0054708
Longitude	90	37	51.3161760
Ellipsoid Height (M):	44.185		
Geoid Height (M):	-26.884		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 5.31 KM (3.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.823 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49 AND 3.14 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540003 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	333	32.34	106.1
MK # 2	IN LINE BRACE POST (IRON PIPE)	31	3.65	12.0
MK # 3	POWER POLE	141	36.39	119.4

AZ Mark Station	540003
Geodetic Azimuth	155 12 14.60568
Grid Azimuth	154 26 16.09447

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ADEHO 2 RM 6
Ref Mon # 3	H 349

Comments

ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540004	9/28/1998	AHTD	PHILLIPS	49	110333,110536,110555

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,346.7119	
Easting (M)	523,823.5340	
Elevation (M)*	77.294	
Northing (SFT)	1,999,165.0040	
Easting (SFT)	1,718,577.7111	
Elevation (SFT)*	253.589	

Convergence Angle	0	45	18.2877064
Scale Factor	0.999958352		
Elevation Adjust. Factor	0.9999878702		
Combined Adjust. Factor	0.9999462227		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	48.3865044
Longitude	90	39	3.2321988
Ellipsoid Height (M):	50.408		
Geoid Height (M):	-26.886		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 1.29 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.80 METERS SOUTHEAST OF A FIELD ENTRANCE, 6.40 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANES AND 2.23 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540004 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAN HOLE COVER	241	14.40	47.2
MK # 2	CORNER POST OF CHAIN LINK FENCE	351	6.50	21.3
MK # 3				

AZ Mark Station	540004A
Geodetic Azimuth	317 10 19.50091
Grid Azimuth	316 25 01.15109

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ADEHO 2 RM 6
Ref Mon # 3	H 349

Comments

ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540004A	9/28/1998	AHTD	PHILLIPS	49	110333,110555

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,802.2729	
Easting (M)	523,389.9670	
Elevation (M)*	74.383	
Northing (SFT)	2,000,659.6237	
Easting (SFT)	1,717,155.2501	
Elevation (SFT)*	244.038	

Convergence Angle	0	45	8.9020771
Scale Factor	0.999959003		
Elevation Adjust. Factor	0.9999883270		
Combined Adjust. Factor	0.9999473305		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	3.3549084
Longitude	90	39	20.0015136
Ellipsoid Height (M):	47.498		
Geoid Height (M):	-26.885		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND U.S. HIGHWAY 49B, LOCATED IN WEST HELENA, GO SOUTHEAST ON U.S. HIGHWAY 49 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 38.42 METERS NORTHWEST OF THE CENTER OF A PAVED ENTRANCE TO A PARKING LOT, 7.244 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANES OF U.S. HIGHWAY 49 AND 2.17 METERS SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "540004A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	123	31.19	102.3
MK # 2	CORNER POST OF CHAIN LINK FENCE	312	30.99	101.7
MK # 3				

AZ Mark Station	540004
Geodetic Azimuth	137 10 09.99088
Grid Azimuth	136 25 01.15109

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	ADEHO 2 RM 6
Ref Mon # 3	H 349

Comments

ELEVATION ON THIS STATION WAS ESTABLISHED BY CREW S5112 FROM NATIONAL GEODETIC SURVEY BENCH MARK S 224.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540004B	12/11/2000	AHTD	PHILLIPS	49	110384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	25,264.3078	
Easting (M)	507,396.5608	
Elevation (M)*	59.138	
Northing (SFT)	82,887.9832	
Easting (SFT)	1,664,683.5499	
Elevation (SFT)*	194.022	

Convergence Angle	0	40	51.1195352
Scale Factor	1.000095789		
Elevation Adjust. Factor	0.9999907194		
Combined Adjust. Factor	1.0000865075		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	19.0818972
Longitude	90	49	47.7243372
Ellipsoid Height (M):	32.282		
Geoid Height (M):	-26.856		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 8.80 KM (5.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.10 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 16.00 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK M 171. THE SHOT DISTANCE IS 596.406 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	248	13.20	43.3
MK # 2	TELEPHONE JUNCTION BOX	259	25.90	85.0
MK # 3	NONE			

AZ Mark Station	540003A
Geodetic Azimuth	270 42 57.73776
Grid Azimuth	270 02 06.82682

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

DUPLICATE STAMPING. STAMPED AS 540004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540004BA	12/11/2000	AHTD	PHILLIPS	49	110384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	25,264.7529	
Easting (M)	506,672.7820	
Elevation (M)*	58.270	
Northing (SFT)	82,889.4435	
Easting (SFT)	1,662,308.9523	
Elevation (SFT)*	191.174	

Convergence Angle	0	40	34.6023373
Scale Factor	1.000095764		
Elevation Adjust. Factor	0.9999908556		
Combined Adjust. Factor	1.0000866187		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	19.3744836
Longitude	90	50	16.1093220
Ellipsoid Height (M):	31.418		
Geoid Height (M):	-26.852		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 8.05 KM (5.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.55 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 13.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK M 171. THE SHOT DISTANCE IS 723.714 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	244	13.39	43.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	540003
Geodetic Azimuth	90 42 41.63774
Grid Azimuth	90 02 06.82682

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

DUPLICATE STAMPING. STAMPED AS 540004A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540005	12/11/2000	AHTD	PHILLIPS	49	110384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	25,234.1310	
Easting (M)	502,315.2730	
Elevation (M)*	58.449	
Northing (SFT)	82,788.9781	
Easting (SFT)	1,648,012.6915	
Elevation (SFT)*	191.761	

Convergence Angle	0	38	55.1512918	
Scale Factor	1.000095708			
Elevation Adjust. Factor	0.9999908275			
Combined Adjust. Factor	1.0000865347			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	33	20.0157264	
Longitude	90	53	7.0170288	
Ellipsoid Height (M):	31.623			
Geoid Height (M):	-26.826			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 3.75 KM (2.33 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.70 METERS EAST OF THE CENTER OF A FIELD ENTRANCE, 13.10 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540005 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 596.406 METER.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	251	15.60	51.2
MK # 2	EAST END OF RCP	285	16.60	54.5
MK # 3	NONE			

AZ Mark Station	540005A
Geodetic Azimuth	87 03 22.457503
Grid Azimuth	86 24 27.134582

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540005A	12/11/2000	AHTD	PHILLIPS	49	110384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	25,271.5049	
Easting (M)	502,910.5630	
Elevation (M)*	56.840	
Northing (SFT)	82,911.5957	
Easting (SFT)	1,649,965.7388	
Elevation (SFT)*	186.483	

Convergence Angle	0	39	8.7461944
Scale Factor	1.000095623		
Elevation Adjust. Factor	0.9999910800		
Combined Adjust. Factor	1.0000867022		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	21.0090780
Longitude	90	52	43.6540404
Ellipsoid Height (M):	30.010		
Geoid Height (M):	-26.830		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 4.35 KM (2.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.90 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "540005A 2000" SET ON TOP ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 596.406 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	280	17.55	57.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	540005
Geodetic Azimuth	267 03 35.70916
Grid Azimuth	266 24 27.13458

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540006	12/11/2000	AHTD	PHILLIPS	49	110384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	25,799.7080	
Easting (M)	498,625.9433	
Elevation (M)*	65.094	
Northing (SFT)	84,644.5420	
Easting (SFT)	1,635,908.6156	
Elevation (SFT)*	213.563	

Convergence Angle	0	37	31.0970458
Scale Factor	1.000094018		
Elevation Adjust. Factor	0.9999897847		
Combined Adjust. Factor	1.0000838018		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	39.6979416
Longitude	90	55	31.4651676
Ellipsoid Height (M):	38.297		
Geoid Height (M):	-26.797		

Location Description

THE STATION IS LOCATED ON THE WEST SIDE OF MARVELL AT THE JUNCTION OF U.S. HIGHWAY 49 STATE HIGHAY 1 SOUTH. THE STATION IS 35.20 METERS EAST OF THE CENTER OF STATE HIGHWAY 1 NORTH BOUND LANE, 23.70 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540006 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE STOT DISTANCE IS 598.519 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	207	11.60	38.1
MK # 2	GAS VALVE	135	6.50	21.3
MK # 3	NONE			

AZ Mark Station	540006A
Geodetic Azimuth	91 56 55.876942
Grid Azimuth	91 19 24.608414

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540006A	12/11/2000	AHTD	PHILLIPS	49	110384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	25,785.8824	
Easting (M)	499,224.3575	
Elevation (M)*	63.757	
Northing (SFT)	84,599.1825	
Easting (SFT)	1,637,871.9129	
Elevation (SFT)*	209.176	

Convergence Angle	0	37	44.7510479
Scale Factor	1.000094075		
Elevation Adjust. Factor	0.9999899945		
Combined Adjust. Factor	1.0000840686		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	39.0367800
Longitude	90	55	8.0006160
Ellipsoid Height (M):	36.955		
Geoid Height (M):	-26.802		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO EAST ON U.S. HIGHWAY 49 FOR 0.56 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.10 METERS EAST OF THE CENTER OF A PAVED STREET, 15.10 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540006A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 598.519 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	75	8.70	28.5
MK # 2	WEST END OF CMP	113	10.50	34.4
MK # 3	NONE			

AZ Mark Station	540006
Geodetic Azimuth	271 57 09.18797
Grid Azimuth	271 19 24.60841

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT A 224

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540007	12/11/2000	AHTD	PHILLIPS	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	28,791.5962	
Easting (M)	494,202.3307	
Elevation (M)*	61.190	
Northing (SFT)	94,460.4285	
Easting (SFT)	1,621,395.4800	
Elevation (SFT)*	200.754	

Convergence Angle	0	35	50.8494364
Scale Factor	1.000085684		
Elevation Adjust. Factor	0.9999903974		
Combined Adjust. Factor	1.0000760806		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	35	18.3083388	
Longitude	90	58	23.7417780	
Ellipsoid Height (M):	34.444			
Geoid Height (M):	-26.746			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 5.63 KM (3.50 MI) TO THE JUNCTION OF COUNTY ROAD 145 AND THE STATION ON THE RIGHT. THE STATION IS 15.80 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 49, 8.00 METERS NORTHEAST OF THE CENTER OF COUNTY ROAD 145 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540007 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 498.453 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	125	5.80	19.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	540007A
Geodetic Azimuth	276 54 44.13948
Grid Azimuth	276 18 53.42809

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT A 224

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540007A	12/11/2000	AHTD	PHILLIPS	49	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	28,846.4266
Easting (M)	493,706.8594
Elevation (M)*	55.913
Northing (SFT)	94,640.3179
Easting (SFT)	1,619,769.9212
Elevation (SFT)*	183.441

Convergence Angle	0	35	39.5505211
Scale Factor			1.000085522
Elevation Adjust. Factor			0.9999912255
Combined Adjust. Factor			1.0000767468

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	35	20.2546572
Longitude	90	58	43.1590872
Ellipsoid Height (M):	29.171		
Geoid Height (M):	-26.742		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 6.13 KM (3.81 KM) TO THE STATION ON THE LEFT. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 49 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540007A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK A 224. THE SHOT DISTANCE IS 498.453.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	540007
Geodetic Azimuth	96 54 33.116635
Grid Azimuth	96 18 53.428090

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT A 224

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540008	12/11/2000	AHTD	PHILLIPS	39	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	29,199.0920	
Easting (M)	490,316.5549	
Elevation (M)*	56.482	
Northing (SFT)	95,797.3543	
Easting (SFT)	1,608,646.8972	
Elevation (SFT)*	185.308	

Convergence Angle	0	34	22.2275620
Scale Factor	1.000084477		
Elevation Adjust. Factor	0.9999911362		
Combined Adjust. Factor	1.0000756125		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	35	32.8182900	
Longitude	91	0	56.0394360	
Ellipsoid Height (M):	29.761			
Geoid Height (M):	-26.719			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 9.66 KM (6.00 MI) TO THE JUNCTION OF STATE HIGHWAY 39 ON THE LEFT, TURN LEFT SOUTH ON STATE HIGHWAY 39 FOR 0.11 KM (0.07 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.10 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE, 10.90 METERS EAST OF THE CENTER OF STATE HIGHWAY 39 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK G 171. THE SHOT DISTANCE IS 557.792 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CMP	346	10.60	34.8
MK # 2	POWER POLE	161	4.70	15.4
MK # 3	NONE			

AZ Mark Station	540008A
Geodetic Azimuth	182 40 51.37698
Grid Azimuth	182 06 29.15669

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT G 171

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540008A	12/11/2000	AHTD	PHILLIPS	39	110385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	28,641.6272	
Easting (M)	490,296.0347	
Elevation (M)*	56.162	
Northing (SFT)	93,968.4052	
Easting (SFT)	1,608,579.5738	
Elevation (SFT)*	184.258	

Convergence Angle	0	34	21.6318281
Scale Factor	1.000085982		
Elevation Adjust. Factor	0.9999911864		
Combined Adjust. Factor	1.0000771677		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	35	14.7365448
Longitude	91	0	57.0632112
Ellipsoid Height (M):	29.439		
Geoid Height (M):	-26.723		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE HIGHWAY 1 SOUTH, LOCATED ON THE WEST SIDE OF MARVELL, GO NORTHWEST ON U.S. HIGHWAY 49 FOR 9.66 KM (6.00 MI) TO THE JUNCTION OF STATE HIGHWAY 39 ON THE LEFT, TURN LEFT SOUTH ON STATE HIGHWAY 39 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.65 METERS WEST OF THE CENTER OF STATE HIGHWYA 39 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "540008A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5101 FROM BENCH MARK G 171.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE CABLE SIGN	191	3.95	13.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	540008
Geodetic Azimuth	2 40 50.795787
Grid Azimuth	2 06 29.156685

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT G 171

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540009	3/29/2011	AHTD	Phillips	CR 240	BR5405,110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	619,062.3431	0.0062
Easting (M)	513,689.8432	0.0052
Elevation (M)*	60.502	0.0024
Northing (SFT)	2,031,040.3707	
Easting (SFT)	1,685,330.7606	
Elevation (SFT)*	198.496	

Convergence Angle	0	41	38.4296971
Scale Factor	0.999973382		
Elevation Adjust. Factor	0.9999905054		
Combined Adjust. Factor	0.9999638877		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	34	38	7.8223934
Longitude	90	45	36.0527594
Ellipsoid Height (M):	33.683	0.0000	
Geoid Height (M):	-26.820	0.3290	

Location Description

The intersection of highway 49 and highway 1 at Walnut corner, go north on highway 1 for miles to the phillips county road 240, turn right (east), go 0.4 miles to the station on the right, 120 feet south of the center of cr 240 and 3 feet north of a witness post. The station mark is a standard 2 1/2" alum. cap stamped(540009 2011) set on top of a 4 foot rebar and driven 0.4 feet below ground level. Lat.34.3807.75 Lon.090.4536

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S.E. corner of bridge	317	36.58	120.0
MK # 2	power pole	144	0.90	3.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540009A	3/29/2011	AHTD	Phillips	CR 240	BR5405,110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	619,107.8830	0.0061
Easting (M)	514,141.9330	0.0051
Elevation (M)*	60.921	0.0026
Northing (SFT)	2,031,189.7795	
Easting (SFT)	1,686,813.9919	
Elevation (SFT)*	199.871	

Convergence Angle	0	41	48.3759425
Scale Factor	0.999973448		
Elevation Adjust. Factor	0.9999904396		
Combined Adjust. Factor	0.9999638879		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid96			
Latitude	34	38	9.1221131	
Longitude	90	45	18.2817912	
Ellipsoid Height (M):	34.097			0.0114
Geoid Height (M):	-26.821			0.3290

Location Description

The intersection of highway 1 and highway 49 in Walnut Corner, go north on highway 1 for miles to phillips county road 240, turn right (east) go 0.7 miles to the station on the left, 23 feet north of the centerline of cr 240 and 9,5 feet west of a witness post. The station mark is a standard 2 1/2" alum. cap stamped(2011 54009A), set on top of a 4 foot rebar driven 0.4 feet below ground level. Lat. 34.3809 Lon. 090.4518

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	power pole	103	2.90	9.5
MK # 2	N.W. corner bridge	107	24.38	80.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540010	4/6/2011	AHTD	PHILLIPS	242	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	615,001.4971	0.0062
Easting (M)	513,034.8406	0.0048
Elevation (M)*	66.953	0.0016
Northing (SFT)	2,017,717.4117	
Easting (SFT)	1,683,181.8062	
Elevation (SFT)*	219.662	

Convergence Angle	0	41	22.9626602
Scale Factor	0.999966903		
Elevation Adjust. Factor	0.9999894930		
Combined Adjust. Factor	0.9999563963		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	35	56.3027715
Longitude	90	46	3.6877322
Ellipsoid Height (M):	40.088		0.0128
Geoid Height (M):	-26.847		0.2232

Location Description

The interscetion of highway 1 and higheay 49 in Walnut Corner, go North on highway 1 for 3.0 miles to the station on the right , 8' north of a witness post, 28' south of a highway 1 and is in the south east quadrant of the intersection of highway 1 and 242. The station mark is a standard 2 1/2" alum. cap stampes (2011 540010) and set on top of a 4' rebar driven 0.2' below ground level. Lat. 34.3556 Lon. 090.4603

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combo Poloe	176	2.44	8.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540010A	4/6/2011	AHTD	PHILLIPS	242	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	614,997.9490	0.0060
Easting (M)	513,445.1666	0.0047
Elevation (M)*	67.027	0.0014
Northing (SFT)	2,017,705.7710	
Easting (SFT)	1,684,528.0174	
Elevation (SFT)*	219.906	

Convergence Angle	0	41	31.9742066
Scale Factor	0.999966890		
Elevation Adjust. Factor	0.9999894813		
Combined Adjust. Factor	0.9999563717		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	34	35	56.0270458
Longitude	90	45	47.5867917
Ellipsoid Height (M):	40.160		0.0128
Geoid Height (M):	-26.849		0.2232

Location Description

the intersection of highway 1 and 49 at Walnut Corner, gp north on Highway 1 for 3.0 miles to highway 242, turn right(east), go 0.3miles to the station on the right, 37' south of the center line of the highway 242, 4' north of a witness post and 46' east of the center of a gravel driveway to an brick building. The station mark is a standard 2 1/2" alum. cap stamped (2011 540010A) and set on top of a 4' rebar driven 0.2' below ground level. Lat. 34.3556 Lon. 090.4547

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	combo pole	168	1.22	4.0
MK # 2	telephone box	200	1.37	4.5
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540011	4/7/2011	AHTD	PHILLIPS	49	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	610,090.1828	0.0048
Easting (M)	512,317.1237	0.0038
Elevation (M)*	63.948	0.0019
Northing (SFT)	2,001,604.2081	
Easting (SFT)	1,680,827.0967	
Elevation (SFT)*	209.802	

Convergence Angle	0	41	5.9088531
Scale Factor	0.999959609		
Elevation Adjust. Factor	0.9999899646		
Combined Adjust. Factor	0.9999495740		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	34	33	17.2055010
Longitude	90	46	34.1577890
Ellipsoid Height (M):	37.062		0.0125
Geoid Height (M):	-26.875		0.2232

Location Description

The intersection of highway 1 and highway 49 at Walnut corner, go west on highway 49 to the station on the left, 2' north of a witness post, 26' west of the center of a gravel driveway and 79' south of the center of highway 49. The station mark is a standard 2 1/2" alum. cap stamped(2011 540011) and set on top of a 4' rebar driven 0.2 foot below ground level Lat. 34.3316 Lon. 090.4634

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fire hydrant	220	4.88	16.0
MK # 2	18" cmp	23	5.64	18.5
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540011A	4/7/2011	AHTD	PHILLIPS	49	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	610,151.4939	0.0050
Easting (M)	511,691.5317	0.0039
Elevation (M)*	63.756	0.0022
Northing (SFT)	2,001,805.3596	
Easting (SFT)	1,678,774.6336	
Elevation (SFT)*	209.173	

Convergence Angle	0	40	52.1913567
Scale Factor	0.999959708		
Elevation Adjust. Factor	0.9999899947		
Combined Adjust. Factor	0.9999497031		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	34	33	19.4371574
Longitude	90	46	58.6668559
Ellipsoid Height (M):	36.877		0.0126
Geoid Height (M):	-26.873		0.2232

Location Description

The intersection of highway 1 and highway 49 at Walnut Corner, go west on highway 49 to the station on the right, 2' south of a witness post, 45' east of the center of a gravel field entrance and 78' north of the center line of highway 49. The station mark is a standard 2 1/2" alum. cap stamped (2011 540011A) and set on top of a 4' rebar and driven 0.2 foot below ground level Lat. 34.3319 Lon.090.4658

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	30"cmp	235	10.67	35.0
MK # 2	power pole	94	34.14	112.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540012	4/11/2011	AHTD	PHILLIPS	1	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	612,169.2128	0.0048
Easting (M)	513,039.8186	0.0038
Elevation (M)*	65.359	0.0021
Northing (SFT)	2,008,425.1590	
Easting (SFT)	1,683,198.1382	
Elevation (SFT)*	214.432	

Convergence Angle	0	41	22.3232986
Scale Factor	0.999962617		
Elevation Adjust. Factor	0.9999897431		
Combined Adjust. Factor	0.9999523605		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	34	34	24.3909093
Longitude	90	46	4.8300802
Ellipsoid Height (M):	38.479	0.0124	
Geoid Height (M):	-26.866	0.2232	

Location Description

The intersection of highway 1 and 49 at Walnut corner, go north on highway1 for 1.3miles to the station on the right, 35' east of the center line of highway 1, 2' west of a witness post and 41' north of the center line of a gravel road to a one story frame house. The station is a standard 2 1/2" alum. cap stamped (2011 540012) set on a 4' rebar driven 0.2 foot below ground level. Lat.34.3320 Lon.090.51.08

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24"cmp	138	9.75	32.0
MK # 2	telephone box	127	11.43	37.5
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540012A	4/11/2011	AHTD	PHILLIPS	1	110217

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	612,684.0590	0.0046
Easting (M)	513,041.9377	0.0036
Elevation (M)*	66.571	0.0022
Northing (SFT)	2,010,114.2836	
Easting (SFT)	1,683,205.0906	
Elevation (SFT)*	218.409	

Convergence Angle	0	41	22.5058941
Scale Factor	0.999963381		
Elevation Adjust. Factor	0.9999895529		
Combined Adjust. Factor	0.9999529343		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	34	34	41.0973142
Longitude	90	46	4.5038367
Ellipsoid Height (M):	39.689	0.0121	
Geoid Height (M):	-26.863	0.2232	

Location Description

The intersection of highway 1 and highway 49 at walnut corner, Go north on highway 1 for 1.6 miles to the station on the right , 2' west of post, 47' south of the center line of county road 244, and 51' east of the center line of highway1. The station mark is a standard 2 1/2" alum. cap stamped (2011 540012A) and set on top of a 4' rebar driven 0.2' below ground level Lat.34.3441 Lon.090.4604

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	fire hydrant	98	2.16	7.1
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS RAN BY CREW S5113 FROM NGS BM Z 171 RESET, U 171, AND T 224 DURING JOB 110217 IN JAN. 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540013	10/15/2012	AHTD	Phillips	44	110575

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	568,845.7121	
Easting (M)	495,346.5357	
Elevation (M)*	48.749	0.0008
Northing (SFT)	1,866,287.9738	
Easting (SFT)	1,625,149.4259	
Elevation (SFT)*	159.937	

Convergence Angle	0	34	44.1999112
Scale Factor	0.999921894		
Elevation Adjust. Factor	0.9999923498		
Combined Adjust. Factor	0.9999142444		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID96		
Latitude	34	11	4.7636124
Longitude	90	57	56.1575988
Ellipsoid Height (M):	22.280		
Geoid Height (M):	-26.542		

Location Description

From the town of Mellwood. Go south on Hwy. 44 for 2.55 miles to the station on the left. It is a standard alum. cap on a 4ft. 5/8in. rebar. Cap is stamped 540013 2012 70ft. East of Center Line Highway 44, 25ft. North of Center of Field Entrance

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southeast of telephone box	341	3.96	13.0
MK # 2	South of power pole with light	8	22.86	75.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

BASED ON NGS POINT K 305

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540014	4/12/2016	AHTD	PHILLIPS	85	B078, 110716

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	599,531.5869	0.0038
Easting (M)	511,494.3129	0.0036
Elevation (M)*	52.140	
Northing (SFT)	1,966,963.2147	
Easting (SFT)	1,678,127.5916	
Elevation (SFT)*	171.062	

Convergence Angle	0	40	45.0980244
Scale Factor	0.999945937		
Elevation Adjust. Factor	0.9999918176		
Combined Adjust. Factor	0.9999377551		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)		
Latitude	34	27	34.8791004
Longitude	90	47	11.3404848
Ellipsoid Height:	25.156		
Grid Northing (Meters)	599,531.5823		
Grid Easting (Meters)	511,494.3139		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	27	34.8792516	
Longitude	90	47	11.3405208	
Ellipsoid Height (M):	25.133			0.0195
Geoid Height (M):	-27.007			

Location Description

TO REACH FROM THE JUNCTION OF HWY. 85 AND HWY. 318 IN ONEIDA. GO SOUTH ON HWY. 85 FOR 0.5 MILES TO PHILLIPS CO. RD. 348. GO WEST/RIGHT ON PHILLIPS CO. RD. 348 FOR 0.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5 FT. SOUTH OF A WITNESS POST, AND 22 FT. NORTH OF THE CENTER OF PHILLIPS CO. RD. 348. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540014 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER CHAINLINK FENCE	357	1.50	4.9
MK # 2	EAST BRICK COLUMN "ONEIDA COMMUNITY CEMETERY	270	10.70	35.1
MK # 3				

AZ Mark Station	540014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARPB
Ref Mon # 3	MSB6

Comments

Elevation based on Static GPS by crew S5102 in April 2016. STATIC WAS PERFORMED AGAIN BY CREW S5102 IN MARCH 2020. VERTICAL DETERMINED BY HOLDING ARWY AND ARST IN STATIC WORK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540014A	4/12/2016	AHTD	PHILLIPS	85	B078, 110716

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	599,505.3352	0.0040
Easting (M)	510,773.5866	0.0038
Elevation (M)*	51.712	
Northing (SFT)	1,966,877.0872	
Easting (SFT)	1,675,763.0087	
Elevation (SFT)*	169.658	

Convergence Angle	0	40	29.2870028
Scale Factor			0.999945916
Elevation Adjust. Factor			0.9999918848
Combined Adjust. Factor			0.9999378012

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	34	27	34.3034676
Longitude	90	47	39.5902068
Ellipsoid Height:			24.717
Grid Northing (Meters)			599,505.3280
Grid Easting (Meters)			510,773.5837

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	27	34.3037016	
Longitude	90	47	39.5900916	
Ellipsoid Height (M):			24.708	0.0192
Geoid Height (M):			-27.004	

Location Description

TO REACH FROM THE JUNCTION OF HWY. 85 AND HWY. 318 IN ONEIDA. GO SOUTH ON HWY. 85 FOR 0.5 MILES TO PHILLIPS CO. RD. 348. GO WEST/RIGHT ON PHILLIPS CO. RD. FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 6 FT. WEST OF A WITNESS POST, 34.5 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 348, AND 54 FT. EAST OF THE CENTER OF A FIELD ENTRANCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540014A 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	94	2.00	6.6
MK # 2	WELL HEAD	276	4.00	13.1
MK # 3				

AZ Mark Station	540014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARST
Ref Mon # 3	MSOX

Comments

Elevation based on Static GPS by crew S5102 in April 2016. STATIC WAS PERFORMED AGAIN BY CREW S5102 IN MARCH 2020. VERTICAL DETERMINED BY HOLDING ARWY AND ARST IN STATIC WORK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540015	5/9/2016	AHTD	PHILLIPS	39	B024

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	606,045.1948	0.0023
Easting (M)	490,202.0944	0.0023
Elevation (M)*		
Northing (SFT)	1,988,333.2766	
Easting (SFT)	1,608,271.3714	
Elevation (SFT)*		

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	GEOID12A			
Latitude	34	31	13.6723440	
Longitude	91	1	3.1227240	
Ellipsoid Height (M):	25.659			0.0114
Geoid Height (M):	-26.859			

Convergence Angle	0	32	59.5572718
Scale Factor	0.999954357		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JUNCTION OF HWY 49 AND HWY 39 WEST OF MARVELL. GO SOUTH ON HWY 39 FOR 5.05 MILES TO THE STATION ON THE RIGHT. THE STATION IS 4 FT. EAST OF A WITNESS POST, 25 FT. WEST OF THE CENTERLINE OF HWY 39, AND 22 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 656. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540015 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	256	8.50	27.9
MK # 2	24" CORREGATED METAL PIPE	308	4.30	14.1
MK # 3				

AZ Mark Station	540015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARWY
Ref Mon # 3	ARLR

Comments

Elevation derived by static GPS by crew S-5102 in May 2016

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540015A	5/9/2016	AHTD	PHILLIPS	39	B024

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	606,060.6649	0.0024
Easting (M)	489,786.3731	0.0024
Elevation (M)*		

Northing (SFT)	1,988,384.0314	
Easting (SFT)	1,606,907.4591	
Elevation (SFT)*		

Convergence Angle	0	32	50.4377345
Scale Factor			0.999954383
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	34	31	14.3035680
Longitude	91	1	19.4166120
Ellipsoid Height (M):	26.884		0.0114
Geoid Height (M):	-26.856		

Location Description

TO REACH FROM THE JUNCTION OF HWY 49 AND HWY 39 WEST OF MARVELL. GO SOUTH ON HWY 39 FOR 5.0 MILES TO PHILLIPS CO. RD. 656. GO RIGHT/WEST ON PHILLIPS CO. RD. 656 FOR 0.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 11 FT. WEST OF A WITNESS POST, AND 18 FT. SOUTH OF THE CENTER OF PHILLIPS CO. RD. 656. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "540015A 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH LIGHT	108	3.30	10.8
MK # 2	18" CORREGATED METAL PIPE	339	11.50	37.7
MK # 3				

AZ Mark Station	540015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARWY
Ref Mon # 3	ARLR

Comments

Elevation derived by static GPS by crew S-5102 in May 2016

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540016	2/26/2019	ARDOT	PHILLIPS	20	110701

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	590,408.9527	0.0020
Easting (M)	513,903.7732	0.0020
Elevation (M)*		

Northing (SFT)	1,937,033.3723	
Easting (SFT)	1,686,032.6292	
Elevation (SFT)*		

Convergence Angle	0	41	35.5126359
Scale Factor	0.999936308		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	22	37.8904764
Longitude	90	45	41.2646760
Ellipsoid Height (M):	26.749	0.0060	
Geoid Height (M):	-26.941	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND STATE HGIHWAY 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 8.05 MILES TO THE MARK ON THE LEFT, SOUTHEAST 14.6' OF THE C/L OF THE HGIHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 540016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SE END OF CMP UNDER HIGHWAY	229	29.57	97.0
MK # 2				
MK # 3				

AZ Mark Station	540016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARWY
Ref Mon # 3	MSOX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540016A	2/26/2019	ARDOT	PHILLIPS	20	110701

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	590,645.8011	0.0020
Easting (M)	514,261.4469	0.0030
Elevation (M)*		

Northing (SFT)	1,937,810.4324	
Easting (SFT)	1,687,206.0970	
Elevation (SFT)*		

Convergence Angle	0	41	43.4111017
Scale Factor	0.999936527		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	22	45.4362060
Longitude	90	45	27.1524780
Ellipsoid Height (M):	27.013	0.0060	
Geoid Height (M):	-26.943	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND STATE HGIHWAY 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 7.75 MILES TO A LEVEE ROAD ON THE LEFT, TURN LEFT HERE AND GO 240' TO THE MARK ON THE RIHGT, 12' WEST OF THE C/L OF THE LEVEE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 540016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE	50	21.03	69.0
MK # 2				
MK # 3				

AZ Mark Station	540016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARWY
Ref Mon # 3	MSOX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540017	2/26/2019	ARDOT	PHILLIPS	20	110701

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	594,364.1899	0.0020
Easting (M)	520,666.4872	0.0020
Elevation (M)*		
Northing (SFT)	1,950,009.8464	
Easting (SFT)	1,708,219.9668	
Elevation (SFT)*		

Convergence Angle	0	44	4.7719058
Scale Factor	0.999940128		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	24	43.5131136
Longitude	90	41	14.5829652
Ellipsoid Height (M):	26.631	0.0100	
Geoid Height (M):	-26.963	0.0100	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 2.55 MILES TO THE MARK ON THE LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 16'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "540017 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP W/TRANSFORMER	141	7.01	23.0
MK # 2	LIGHT POLE	320	17.68	58.0
MK # 3	NE COR 1-S-B HOOUSE	313	33.53	110.0

AZ Mark Station	540017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARWY
Ref Mon # 3	MSOX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
540017A	2/26/2019	ARDOT	PHILLIPS	20	110701

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	594,630.7173	0.0020
Easting (M)	521,018.3173	0.0020
Elevation (M)*		

Northing (SFT)	1,950,884.2783	
Easting (SFT)	1,709,374.2627	
Elevation (SFT)*		

Convergence Angle	0	44	12.5576004
Scale Factor	0.999940400		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	24	52.0158888
Longitude	90	41	0.6722556
Ellipsoid Height (M):	26.629	0.0100	
Geoid Height (M):	-26.964	0.0100	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 20W AND 20 SPUR, EAST OF WABASH, GO WEST ON HIGHWAY 20 2.3 MILES TO THE MARK ON THE LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 13'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "540017A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SE END CMP UNDER HIGHWAY	62	18.59	61.0
MK # 2				
MK # 3				

AZ Mark Station	540017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARWY
Ref Mon # 3	MSOX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550001	8/1/1994	AHTD	PIKE	8	070063

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	578,404.6519	
Easting (M)	263,124.7450	
Elevation (M)*	164.557	
Northing (SFT)	1,897,649.2621	
Easting (SFT)	863,268.4342	
Elevation (SFT)*	539.884	

Convergence Angle	0	49	54.9104689
Scale Factor	0.999926624		
Elevation Adjust. Factor	0.9999741763		
Combined Adjust. Factor	0.9999008022		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	15	58.3948152
Longitude	93	29	11.0100120
Ellipsoid Height (M):	136.499		
Geoid Height (M):	-28.058		

Location Description

FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO WEST ON HWY. 8 FOR 2.34 KM (1.46 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 0.56 KM (0.36 MILES) WEST OF THE PIKE -CLARK COUNTY LINE, JUST WEST OF THE CORNERSTONE FAMILY WORSHIP CENTER, 13.20 METERS NORTH OF THE CENTERLINE OF THE HWY. 8, 18.70 METERS WEST OF A DRIVEWAY AND 1.0 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "550001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF 12" METAL CULVERT	145	16.10	52.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	550001A
Geodetic Azimuth	116 37 47.8
Grid Azimuth	117 27 42.71

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARKAPORT
Ref Mon # 2	PLEASANT
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550001A	8/1/1994	AHTD	PIKE	8	070063

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	578,338.6769	
Easting (M)	263,251.6880	
Elevation (M)*	162.420	
Northing (SFT)	1,897,432.8091	
Easting (SFT)	863,684.9130	
Elevation (SFT)*	532.873	

Convergence Angle	0	49	52.1123336
Scale Factor	0.999926583		
Elevation Adjust. Factor	0.9999745117		
Combined Adjust. Factor	0.9999010965		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	15	56.3135400
Longitude	93	29	6.0105804
Ellipsoid Height (M):	134.365		
Geoid Height (M):	-28.055		

Location Description

FROM THE JCT. OF HWY. 8 AND HWY. 84 IN THE CENTER OF THE TOWN OF AMITY, GO WEST ON HWY. 8 FOR 2.22 KM (1.38 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 0.45 KM (0.28 MILES) WEST OF THE PIKE-CLARK COUNTY LINE AND JUST WEST OF THE CORNERSTONE FAMILY WORSHIP CENTER, 14.30 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY, 47 METERS EAST OF A DRIVEWAY TO THE CHURCH AND 1 METER SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "550001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	DOUBLE 8" GUM TREE	80	14.45	47.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	550001
Geodetic Azimuth	296 37 50.60
Grid Azimuth	297 27 42.71

Area Reference Monuments (used for Processing)

Ref Mon # 1	550001
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

THE COORDINATES ON THIS POINT WERE ARRIVED AT BY SOLAR OBSERVATION.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550007	7/29/2003	AHTD	PIKE	26	070237

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	552,904.3480	
Easting (M)	268,822.1110	
Elevation (M)*	90.818	
Northing (SFT)	1,813,987.0151	
Easting (SFT)	881,960.5425	
Elevation (SFT)*	297.960	

Convergence Angle	0	47	42.5223371	
Scale Factor	0.999918471			
Elevation Adjust. Factor	0.9999857478			
Combined Adjust. Factor	0.9999042200			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	2	13.4434212	
Longitude	93	25	14.4719832	
Ellipsoid Height (M):	63.774			
Geoid Height (M):	-26.936			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO EAST ON HIGHWAY 26 0.05 MILES TO THE STATION ON THE LEFT. NORTH 10.3 METERS OF THE CENTERLINE AND 0.25 METERS SOUTH OF A WITNESS POST. THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF ANTOINE CEMETERY. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "550007 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	336	10.50	34.4
MK # 2	CHAINLINK GATE FENCE POST	340	0.40	1.3
MK # 3				

AZ Mark Station	550007A
Geodetic Azimuth	263 53 28
Grid Azimuth	264 41 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LITTLE ROCK
Ref Mon # 2	HOPE, DQUA
Ref Mon # 3	100007,100007A

Comments

ELEV BY 3WR FROM NGS X 137 - RV 542

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550007A	7/29/2003	AHTD	PIKE	26	070237

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	552,872.3611	
Easting (M)	268,478.1920	
Elevation (M)*	93.419	
Northing (SFT)	1,813,882.0714	
Easting (SFT)	880,832.2016	
Elevation (SFT)*	306.493	

Convergence Angle	0	47	50.0165501	
Scale Factor	0.999918470			
Elevation Adjust. Factor	0.9999853397			
Combined Adjust. Factor	0.9999038109			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	2	12.2501904	
Longitude	93	25	27.8619024	
Ellipsoid Height (M):	66.378			
Geoid Height (M):	-26.939			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 29/301/AND 26, IN ANTOINE, GO WEST ON HIGHWAY 26 0.15 MILES TO THE STATION ON THE LEFT. SOUTH 8.2 METERS OF THE CENTERLINE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "550007A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	242	10.20	33.5
MK # 2	GUY	222	5.40	17.7
MK # 3				

AZ Mark Station	550007
Geodetic Azimuth	83 53 21
Grid Azimuth	84 41 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LITTLE ROCK
Ref Mon # 2	HOPE, DQUA
Ref Mon # 3	100007,100007A

Comments

ELEV BY 3WR FROM NGS X 137 - RV 542

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550008	2/6/2007	AHTD	PIKE	70	080318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	586,589.3349	
Easting (M)	261,673.8890	
Elevation (M)*	178.194	
Northing (SFT)	1,924,501.8429	
Easting (SFT)	858,508.4175	
Elevation (SFT)*	584.626	

Convergence Angle	0	50	29.2814380
Scale Factor	0.999932627		
Elevation Adjust. Factor	0.9999720363		
Combined Adjust. Factor	0.9999046652		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	20	23.3193912
Longitude	93	30	12.4206624
Ellipsoid Height (M):	150.612		
Geoid Height (M):	-27.578		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 70B, EAST OF GLENWOOD, GO EAST ON HIGHWAY 70 FOR 2.0 MILES TO THE STATION MARK ON THE RIGHT ON TOP OF A SMALL HILL SOUTH OF THE ROAD DITCH, SOUTHEAST 64.90 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 1.50 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "550008 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER CONCRETE DITCH	29	19.75	64.8
MK # 2	METAL FENCE POST	141	13.78	45.2
MK # 3	TELEPHONE PEDESTAL	68	33.59	110.2

AZ Mark Station	490005
Geodetic Azimuth	61 57 51
Grid Azimuth	62 48 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	DQUA

Comments

3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550009	2/6/2007	AHTD	PIKE	8	080318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	585,602.6278	
Easting (M)	256,886.9980	
Elevation (M)*	168.011	
Northing (SFT)	1,921,264.6214	
Easting (SFT)	842,803.4259	
Elevation (SFT)*	551.216	

Convergence Angle	0	52	13.7681271
Scale Factor	0.999931756		
Elevation Adjust. Factor	0.9999736343		
Combined Adjust. Factor	0.9999053921		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	19	48.9778860
Longitude	93	33	19.1071512
Ellipsoid Height (M):	140.390		
Geoid Height (M):	-27.622		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70B , STATE HIGHWAY 27, AND STATE HIGHWAY 8 IN GLENWOOD, GO NORTH ON HIGHWAY 8 FOR 0.30 MILES TO THE STATION MARK ON THE LEFT, AT THE SOUTHEAST CORNER OF AN OLD BUILDING FOUNDATION, WEST 49.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "550009 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANDT	134	15.12	49.6
MK # 2	POWER POLE W/TRANSFORMER	224	27.80	91.2
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	DQUA

Comments

3-Wire Levels ran by crew S5103 from NGS mark RV 574 (checking with USGS points "Welsh No 2 1957" & "Welsh 1957") on 4-17-07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550010	2/24/2016	AHTD	PIKE	70	030414, 030483

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	584,882.0617	0.0020
Easting (M)	255,948.1474	0.0020
Elevation (M)*	178.782	

Northing (SFT)	1,918,900.5641	
Easting (SFT)	839,723.2136	
Elevation (SFT)*	586.553	

Convergence Angle	0	52	34.0818398	
Scale Factor			0.999931168	
Elevation Adjust. Factor			0.9999719441	
Combined Adjust. Factor			0.9999031140	

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	19	25.1297580	
Longitude	93	33	55.4016852	
Ellipsoid Height (M):			151.036	0.0060
Geoid Height (M):			-27.723	0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 8 EAST, IN GLENWOOD, GO WEST ON HIGHWAY 70 0.6 MILES TO THE MARK ON THE RIGHT, NORTH OF THE CENTERLINE OF THE HIGHWAY 59 FEET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 550010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER RED BRICK CHURCH	345	84.90	278.5
MK # 2	SOUTHWEST CORNER 1-S-METAL BLDING	53	89.50	293.6
MK # 3	CHURCH SIGN	282	103.00	337.9

AZ Mark Station	550010
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM, OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 59 BY S5112 IN MARCH 2016 FOR JOB # 030414.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550010A	2/24/2016	AHTD	PIKE	70	030414, 030483

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	584,682.9318	0.0020
Easting (M)	256,516.3942	0.0020
Elevation (M)*	183.847	
Northing (SFT)	1,918,247.2521	
Easting (SFT)	841,587.5366	
Elevation (SFT)*	603.173	

Convergence Angle	0	52	21.5753387	
Scale Factor	0.999931017			
Elevation Adjust. Factor	0.9999711492			
Combined Adjust. Factor	0.9999021682			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	19	18.9490656	
Longitude	93	33	33.0563052	
Ellipsoid Height (M):	156.109			0.0060
Geoid Height (M):	-27.713			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 8 EAST, IN GLENWOOD, GO WEST ON HIGHWAY 70 0.25 MILES TO THE MARK ON THE LEFT, SOUTH 71 FEET OF THE CENTERLINE OF THE HIGHWAY AND 41 FEET NORTH OF THE CENTERLINE OF A SIDE ROAD PARALLELING THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 550010A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	R/W MARKER	105	3.00	9.8
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM, OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM S 59 BY S5112 IN MARCH 2016 FOR JOB # 030414.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550011	3/4/2024	AHTD	Pike	84	03X520

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD83(2011)	
Northing (M)	576,826.3879	0.0010
Easting (M)	255,018.5791	0.0010
Elevation (M)*	148.909	0.0085
Northing (SFT)	1,892,471.2410	
Easting (SFT)	836,673.4549	
Elevation (SFT)*	488.547	

Convergence Angle	0	52	51.7199545
Scale Factor	0.999925581		
Elevation Adjust. Factor	0.9999766318		
Combined Adjust. Factor	0.9999022145		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	15	3.2434668	
Longitude	93	34	26.9157252	
Ellipsoid Height (M):	121.326			0.0090
Geoid Height (M):	-27.600			

Location Description

In Kirby AR Pike CO. At the fourway intersection of Hwy 27 Hwy 70 & Hwy 84 go East on Hwy 84 for 3.9 Miles to the station on the right.The station is a standerd 2.5in. aluminum ARDOT GPS cap stamped 550011, 2024 set just below the ground surface ontop of a 5/8in. rebar 4 ft. in lenght the station is 35 ft. southeast of the center of hwy 84 and 14 ft. Northwest of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16in. Cedar Tree	42	20.00	65.6
MK # 2				
MK # 3				

AZ Mark Station	550011A
Geodetic Azimuth	44 12 12.5
Grid Azimuth	45 5 4.2

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHS
Ref Mon # 3	ARDQ

Comments

ELEV DETERMINED BY STATIC OBS HOLDING BM FUNDERBURK TO GPS 550011A. DIGITAL LEVELS WERE RAN FROM 550011A TO EST ELEV ON 550011 DURING JOB 03X520 BY CREW S5102 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
550011A	3/4/2024	AHTD	Pike	84	03X520

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD83(2011)	
Northing (M)	577,125.9704	0.0010
Easting (M)	255,319.0494	0.0010
Elevation (M)*	143.873	0.0085
Northing (SFT)	1,893,454.1212	
Easting (SFT)	837,659.2479	
Elevation (SFT)*	472.022	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	15	13.1154264	
Longitude	93	34	15.3527124	
Ellipsoid Height (M):	116.269			0.0090
Geoid Height (M):	-27.604			

Convergence Angle	0	52	45.2482439
Scale Factor	0.999925763		
Elevation Adjust. Factor	0.9999774222		
Combined Adjust. Factor	0.9999031869		

Location Description

In Kirby AR Pike CO.At the fourway of Hwy 27 Hwy 70 & Hwy 84 go east on hwy 84 for 4.1 Miles to the station on the left. in the " Y " of CO. RD. 26. The station is a standerd 2.5in. aluminum ARDOT GPS cap stamped 550011A, 2024 set just below the ground surface ontop of a 5/8in. rebar 4 ft. in length. The station is 37 ft. Northwest of center Hwy 84 and 45 ft. South of witness post.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	101	40.50	132.9
MK # 2				
MK # 3				

AZ Mark Station	550011
Geodetic Azimuth	224 12 12.5
Grid Azimuth	225 4 57.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHS
Ref Mon # 3	ARDQ

Comments

ELEV DETERMINED BY STATIC OBS HOLDING BM FUNDERBURK DURING JOB 03X520 BY CREW S5102 IN MARCH 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560001	4/27/1999	AHTD	POINSETT	1	001853

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	145,612.0080	
Easting (M)	516,527.1710	
Elevation (M)*	75.559	
Northing (SFT)	477,728.7296	
Easting (SFT)	1,694,639.5602	
Elevation (SFT)*	247.896	

Convergence Angle	0	44	55.3763171	
Scale Factor	0.999936390			
Elevation Adjust. Factor	0.9999881425			
Combined Adjust. Factor	0.9999245332			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	38	20.3312040	
Longitude	90	42	47.9663928	
Ellipsoid Height (M):	48.004			
Geoid Height (M):	-27.558			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO SOUTH ON STATE HIGHWAY 1 FOR 1.21 KM (0.75 MI) TO THE STATION ON THE RIGHT. THE STATION IS 21.153 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 1, 14.165 METERS SOUTHEAST OF THE CENTER OF DANA LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	560001A
Geodetic Azimuth	215 11 53.92088
Grid Azimuth	214 26 58.53952

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2

Comments

Elevations based on 3 wire from NGS point F 76

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560001A	4/27/1999	AHTD	POINSETT	1	001853

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	145,132.7400	
Easting (M)	516,198.3990	
Elevation (M)*	75.226	
Northing (SFT)	476,156.3312	
Easting (SFT)	1,693,560.9141	
Elevation (SFT)*	246.804	

Convergence Angle	0	44	47.6279513
Scale Factor	0.999936322		
Elevation Adjust. Factor	0.9999881947		
Combined Adjust. Factor	0.9999245175		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	38	4.9202304
Longitude	90	43	1.2820440
Ellipsoid Height (M):	47.672		
Geoid Height (M):	-27.554		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO SOUTH ON STATE HIGHWAY 1 FOR 1.85 KM (1.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 19.92 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 1, 10.75 METERS NORTHEAST OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560001A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST END CMP	244	6.40	21.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	560001
Geodetic Azimuth	35 11 46.162582
Grid Azimuth	34 26 58.539524

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560002	4/27/1999	AHTD	POINSETT	1	001853,100833

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	150,729.9100	
Easting (M)	517,657.2070	
Elevation (M)*	75.639	
Northing (SFT)	494,519.7131	
Easting (SFT)	1,698,347.0200	
Elevation (SFT)*	248.159	

Convergence Angle	0	45	23.0747905
Scale Factor	0.999937475		
Elevation Adjust. Factor	0.9999881299		
Combined Adjust. Factor	0.9999256057		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	41	5.9024580	
Longitude	90	42	0.3662640	
Ellipsoid Height (M):	48.032			
Geoid Height (M):	-27.607			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO NORTH ON STATE HIGHWAY 1 FOR 3.86 KM (2.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.773 METERS EAST OF THE CENTER OF STATE HIGHWAY 1, 20.374 METERS NORTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 19.181 METERS WEST OF THE WEST RAIL AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560002 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	USC&GS BM F 76	115	35.69	117.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	560002A
Geodetic Azimuth	199 21 40.85478
Grid Azimuth	198 36 17.77614

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2

Comments

Elevations based on 3 wire from NGS point F 76

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560002A	4/27/1999	AHTD	POINSETT	1	001853

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	150,337.9890	
Easting (M)	517,525.2730	
Elevation (M)*	75.457	
Northing (SFT)	493,233.8856	
Easting (SFT)	1,697,914.1665	
Elevation (SFT)*	247.562	

Convergence Angle	0	45	19.9020428
Scale Factor			0.999937369
Elevation Adjust. Factor			0.9999881585
Combined Adjust. Factor			0.9999255282

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	40	53.2429320	
Longitude	90	42	5.8186656	
Ellipsoid Height (M):	47.854			
Geoid Height (M):	-27.603			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 158 EAST, LOCATED ABOUT 9.66 KM (6.00 MI) NORTH OF HARRISBURG, GO NORTH ON STATE HIGHWAY 1 FOR 3.46 KM (2.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.57 METERS WEST OF THE CENTER OF STATE HIGHWAY 1, 11.83 METERS SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560002A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	14	4.70	15.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	560002
Geodetic Azimuth	19 21 37.674381
Grid Azimuth	18 36 17.776140

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2

Comments

Elevations based on 3 wire from NGS point F 76

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560003	9/27/2000	AHTD	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	128,359.4285	
Easting (M)	549,882.7927	
Elevation (M)*	67.870	
Northing (SFT)	421,125.8917	
Easting (SFT)	1,804,073.7957	
Elevation (SFT)*	222.670	

Convergence Angle	0	57	40.0986667
Scale Factor			0.999937614
Elevation Adjust. Factor			0.9999893491
Combined Adjust. Factor			0.9999269638

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	28	44.4164052
Longitude	90	20	53.7826920
Ellipsoid Height (M):	40.318		
Geoid Height (M):	-27.552		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 1.05 KM (0.65 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN ON THE SOUTH END OF A BRIDGE. THE STATION IS 19.36 METERS NORTH OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 6.34 METERS SOUTH OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGWHAY 63 AND 1.30 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560003 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK G 174. THE SHOT DISTANCE IS 577.696 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	105	6.11	20.0
MK # 2	SOUTHWEST CORNER OF NORTH BOUND B RIDGE	309	2.49	8.2
MK # 3	SOUTHEAST CORNER OF SOUTH BOUND B RIDGE	251	18.59	61.0

AZ Mark Station	560003A
Geodetic Azimuth	288 41 51.30166
Grid Azimuth	287 44 11.21913

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560003A	9/27/2000	AHTD	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	128,535.4066	
Easting (M)	549,332.5889	
Elevation (M)*	66.206	
Northing (SFT)	421,703.2465	
Easting (SFT)	1,802,268.6687	
Elevation (SFT)*	217.211	

Convergence Angle	0	57	27.4672738
Scale Factor	0.999937561		
Elevation Adjust. Factor	0.9999896102		
Combined Adjust. Factor	0.9999271719		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	28	50.4248988
Longitude	90	21	15.4898784
Ellipsoid Height (M):	38.662		
Geoid Height (M):	-27.554		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 0.48 KM (0.30 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 18.75 METERS NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE, 18.30 METERS SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE, AND 4.10 METERS WEST OF THE CENTER OF A GRASS CROSSOVER AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560003A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK G 174. THE SHOT DISTANCE IS 577.696 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	560003
Geodetic Azimuth	108 41 38.70246
Grid Azimuth	107 44 11.21913

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560004	10/2/2000	AHTD	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	125,513.5345	
Easting (M)	553,047.0859	
Elevation (M)*	66.864	
Northing (SFT)	411,788.9878	
Easting (SFT)	1,814,455.3143	
Elevation (SFT)*	219.370	

Convergence Angle	0	58	52.0084982
Scale Factor	0.999938550		
Elevation Adjust. Factor	0.9999895070		
Combined Adjust. Factor	0.9999280576		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	27	10.3421052
Longitude	90	18	50.2048620
Ellipsoid Height (M):	39.345		
Geoid Height (M):	-27.519		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 5.47 KM (3.40 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 22.40 METERS SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 18.00 METERS NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGWAY 63, 16.00 METERS SOUTHEAST OF A PAVED CROSSOVER AND 0.46 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560004 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK K 174. THE SHOT DISTANCE IS 656.796 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	560004A
Geodetic Azimuth	145 51 07.11447
Grid Azimuth	144 52 15.09216

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560004A	10/2/2000	AHTD	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	124,976.4033	
Easting (M)	553,424.9964	
Elevation (M)*	66.524	
Northing (SFT)	410,026.7498	
Easting (SFT)	1,815,695.1757	
Elevation (SFT)*	218.254	

Convergence Angle	0	59	0.5154233
Scale Factor			0.999938749
Elevation Adjust. Factor			0.9999895603
Combined Adjust. Factor			0.9999283100

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	26	52.7048628	
Longitude	90	18	35.5856184	
Ellipsoid Height (M):	38.970			
Geoid Height (M):	-27.512			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 6.12 KM (3.80 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 13.20 METERS EAST-NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE, 12.00 METERS WEST-SOUTHWEST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560004A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK K 174. THE SHOT DISTANCE IS 656.796.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	560004
Geodetic Azimuth	325 51 15.59360
Grid Azimuth	324 52 15.09216

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560005	8/1/2001	AHTD	POINSETT	14	100381

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	138,047.4500
Easting (M)	524,611.6060
Elevation (M)*	
Northing (SFT)	452,910.6755
Easting (SFT)	1,721,163.2440
Elevation (SFT)*	
Convergence Angle	0 47 59.9100248
Scale Factor	0.999935967
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 34 11.3488140
Longitude	90 37 30.8432028
Ellipsoid Height (M):	38.513
Geoid Height (M):	-27.554

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 14, LOCATED IN HARRISBURG, GO EAST ON STATE HIGHWAY 14 FOR 9.576 KM (5.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.70 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 14, 9.00 METERS WEST OF A FIELD ENTRANCE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "560005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 803.580 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BRIDGE	0	10.00	32.8
MK # 2	CONCRETE GUARDRAIL POST	40	12.80	42.0
MK # 3	TELEPHONE JUNCTION BOX	127	13.85	45.4

AZ Mark Station	560005A
Geodetic Azimuth	272 42 08
Grid Azimuth	271 54 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	L 314
Ref Mon # 2	W 15 OFFSET
Ref Mon # 3	560002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560005A	8/1/2001	AHTD	POINSETT	14	100381

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	138,074.1210
Easting (M)	523,808.5300
Elevation (M)*	
Northing (SFT)	452,998.1786
Easting (SFT)	1,718,528.4855
Elevation (SFT)*	
Convergence Angle	0 47 41.3610027
Scale Factor	0.999935965
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 34 12.5768280
Longitude	90 38 2.7198996
Ellipsoid Height (M):	39.444
Geoid Height (M):	-27.548

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 14, LOCATED IN HARRISBURG, GO EAST ON STATE HIGHWAY 14 FOR 8.787 KM (5.46 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 14, 8.00 METERS WEST OF THE CENTER OF DITCH 26 LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "560005A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 803.580 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BRIDGE	212	9.25	30.3
MK # 2	POWER POLE	70	16.70	54.8
MK # 3	CONCRETE GUARDRAIL POST	182	7.75	25.4

AZ Mark Station	560005
Geodetic Azimuth	92 41 49
Grid Azimuth	91 54 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	L 314
Ref Mon # 2	W 15 OFFSET
Ref Mon # 3	560002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560006	12/19/2002	AHTD	POINSETT	163	100208

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	152,705.3499
Easting (M)	521,332.5700
Elevation (M)*	
Northing (SFT)	501,000.8021
Easting (SFT)	1,710,405.2734
Elevation (SFT)*	

Convergence Angle	0	46	48.7500883
Scale Factor	0.999938052		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	42	8.3968056
Longitude	90	39	33.1323300
Ellipsoid Height (M):	42.215		
Geoid Height (M):	-27.645		

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 163 AND HIGHWAY 1, SOUTH OF JONESBORO, GO SOUTH ON HIGHWAY 163 5.3 MILES TO THE STATION ON THE RIGHT. 12.2 METERS SOUTH OF CENTER OF A FIELD ROAD, 11.20 METERS WEST OF THE CENTER OF THE ROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560006 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FENCE POST	351	7.90	25.9
MK # 2	POWER POLE	133	33.50	109.9
MK # 3				

AZ Mark Station	560006A
Geodetic Azimuth	180 56 42
Grid Azimuth	180 09 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	BULTER, PARAGOULD
Ref Mon # 2	MEM2
Ref Mon # 3	480016

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560006A	12/19/2002	AHTD	POINSETT	163	100208

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	152,042.0530
Easting (M)	521,330.6630
Elevation (M)*	
Northing (SFT)	498,824.6356
Easting (SFT)	1,710,399.0169
Elevation (SFT)*	
Convergence Angle	0 46 48.4968896
Scale Factor	0.999937843
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 41 46.8769452
Longitude	90 39 33.5674548
Ellipsoid Height (M):	41.686
Geoid Height (M):	-27.640

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 163 AND HIGHWAY 1, SOUTH OF JONESBORO, GO SOUTH ON HIGHWAY 163 5.7 MILES TO THE STATION ON THE RIGHT. 11.85 METERS WEST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "560006A 2002" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	560006
Geodetic Azimuth	0 56 41
Grid Azimuth	0 09 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	BULTER, PARAGOULD
Ref Mon # 2	MEM2
Ref Mon # 3	480016

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560007	11/1/2007	AHTD	Poinsett	214	100644

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	142,044.3620	
Easting (M)	526,151.0440	
Elevation (M)*	65.863	
Northing (SFT)	466,023.8777	
Easting (SFT)	1,726,213.8835	
Elevation (SFT)*	216.084	

Convergence Angle	0	48	36.7895607
Scale Factor	0.999936005		
Elevation Adjust. Factor	0.9999896641		
Combined Adjust. Factor	0.9999256698		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	36	20.3288112
Longitude	90	36	27.4653180
Ellipsoid Height (M):	38.261		
Geoid Height (M):	-27.601		

Location Description

The station is located at the junction of highways 214 and 373 aprox. 7.0 miles southwest of Truman and 6.50 miles northeast of Harrisburg. 20 feet north of the center of hwy-214, 13.0 feet east of the center of a field road and 1.5 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "560007 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Well	305	31.69	104.0
MK # 2	Power Pole	217	23.47	77.0
MK # 3				

AZ Mark Station	560007A
Geodetic Azimuth	181 01 51
Grid Azimuth	180 13 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, R 314
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1

Comments

3-Wire Levels ran by Crew S5102 in October 2007 from 1st Order NGS mark R 314.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560007A	11/1/2007	AHTD	Poinsett	373	100644

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	141,264.9880	
Easting (M)	526,148.0440	
Elevation (M)*	64.999	
Northing (SFT)	463,466.8815	
Easting (SFT)	1,726,204.0410	
Elevation (SFT)*	213.250	

Convergence Angle	0	48	36.4654287
Scale Factor	0.999935967		
Elevation Adjust. Factor	0.9999897997		
Combined Adjust. Factor	0.9999257673		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	35	55.0430844
Longitude	90	36	28.0223424
Ellipsoid Height (M):	37.403		
Geoid Height (M):	-27.595		

Location Description

To reach the station from the junction of highways 214 and 373 located aprox. 7 miles southwest of Truman and 6.5 miles northeast of Harrisburg, go south on hwy-373 for 0.40 miles to the station on the right. 22.5 feet west of the center of hwy-373, 10 feet north of the center of a field road and 6 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "560007A 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16 in Cmp	282	3.04	10.0
MK # 2				
MK # 3				

AZ Mark Station	560007
Geodetic Azimuth	001 01 50
Grid Azimuth	000 13 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, R 314
Ref Mon # 2	ARPG
Ref Mon # 3	ZME1

Comments

3-Wire Levels ran by Crew S5102 in October 2007 from 1st Order NGS mark R 314.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560008	7/10/2010	AHTD	Poinsett	1	100688

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	137,958.0681
Easting (M)	515,631.9800
Elevation (M)*	81.277
Northing (SFT)	452,617.4284
Easting (SFT)	1,691,702.5877
Elevation (SFT)*	266.656
Convergence Angle	0 44 32.3784439
Scale Factor	0.999935966
Elevation Adjust. Factor	0.9999872452
Combined Adjust. Factor	0.9999232120

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 34 12.3703176
Longitude	90 43 27.4884888
Ellipsoid Height (M):	53.782
Geoid Height (M):	-27.494

Location Description

To reach the station from the intersection of highway 1 and highway 14 in Harrisburg, go north 0.3 miles on highway 1 to the station on the left, set in a grass island between the north entrance of the carwash and the driveway to the grocery store, 29 feet west of the centerline of highway 1, 45 feet north of concrete of driveway to a carwash and 1.5 feet east of the witness post. The station mark is a 2 1/2 inch cap stamped "560008 2010" set on top of a 5/8 inch by 4 foot rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	light pole	329	16.31	53.5
MK # 2	South East edge of Splash car wash sign	308	8.53	28.0
MK # 3				

AZ Mark Station	560008A
Geodetic Azimuth	7 33 07
Grid Azimuth	6 48 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	NEWSPORT
Ref Mon # 3	ZME1

Comments

Digital Levels were ran by crew S5103 from NGS mark W 182 to Z 182 during Job 100688 in Oct. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560008A	7/10/2010	AHTD	Poinsett	1	100688

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	138,557.6930	
Easting (M)	515,703.5840	
Elevation (M)*	82.306	
Northing (SFT)	454,584.6978	
Easting (SFT)	1,691,937.5085	
Elevation (SFT)*	270.033	

Convergence Angle	0	44	34.2127605
Scale Factor	0.999935947		
Elevation Adjust. Factor	0.9999870836		
Combined Adjust. Factor	0.9999230314		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	34	31.7956836
Longitude	90	43	24.3361956
Ellipsoid Height (M):	54.810		
Geoid Height (M):	-27.499		

Location Description

To reach from the intersection of highway 1 and highway 14 in Harrisburg, go north 0.7 miles on highway 1 to the station on the right, set in grass lot south of the Unico bank, 52 feet east of highway 1 and 1.5 feet west of the witness post. The station mark is a 2 1/2 inch cap stamped "560008A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southwest corner of the Unico bank sign post	5	32.00	105.0
MK # 2	Center of West entrance double doors to bank	39	36.88	121.0
MK # 3				

AZ Mark Station	560008
Geodetic Azimuth	187 33 09
Grid Azimuth	186 48 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	NEWSPORT
Ref Mon # 3	ZME1

Comments

Digital Levels were ran by crew S5103 from NGS mark W 182 to Z 182 during Job 100688 in Oct. 2010.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560009	7/12/2012	AHTD	poinsett	214	100764

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	146,889.5393	
Easting (M)	498,670.6270	
Elevation (M)*	74.643	
Northing (SFT)	481,920.0969	
Easting (SFT)	1,636,055.2154	
Elevation (SFT)*	244.892	

Convergence Angle	0	38	2.7024800
Scale Factor			0.999936641
Elevation Adjust. Factor			0.9999882862
Combined Adjust. Factor			0.9999249279

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD96		
Latitude	35	39	8.7738120
Longitude	90	54	37.1508840
Ellipsoid Height (M):	47.127		
Geoid Height (M):	-27.516		

Location Description

Starting at the poinsett county line go South on highway 49 for 3.875 miles to state highway 214. The go west on 214 for 1.575 miles to the station on the right. The station is a statndard alum. cap stamped (560009-2012) and set on top of a 4 foot' 5/8" rebar. 34' north of the cl of 214 and 2' south of a witness post. Lat. 35.3909 Lon. 90.5437

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	power pole	145	27.10	88.9
MK # 2	power pole with guy	80	14.95	49.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560009A	7/12/2012	AHTD	poinsett	214	100764

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	146,869.6160	
Easting (M)	498,208.7203	
Elevation (M)*	74.844	
Northing (SFT)	481,854.7318	
Easting (SFT)	1,634,539.7765	
Elevation (SFT)*	245.551	

Convergence Angle	0	37	52.0122552
Scale Factor	0.999936638		
Elevation Adjust. Factor	0.9999882547		
Combined Adjust. Factor	0.9999248934		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD96		
Latitude	35	39	8.2928520
Longitude	90	54	55.5221520
Ellipsoid Height (M):	47.326		
Geoid Height (M):	-27.516		

Location Description

Starting at the poinsett county line go south on highway 49 for 3.875 miles to state highway 214. Go west on 214 for 1.875 miles to the station on the left. The station is a standard alum. cap stamped (560009A-2012) and set on top of a 4' long 5/8" rebar. 27' south of cl of 214 and 2' south of a witness post

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	telephone box	291	2.74	9.0
MK # 2	18" cmp	62	5.20	17.1
MK # 3	24" red oak	106	22.86	75.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST BY 3WR DIGITAL LEVEL RUN FROM NGS BM W 180 BY CREW S5102 DURING JOB 100764 IN JULY 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560010	11/5/2013	AHTD	POINSETT	140	BR5611

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	137,781.0996	
Easting (M)	543,550.9027	
Elevation (M)*	65.127	
Northing (SFT)	452,036.8243	
Easting (SFT)	1,783,299.9199	
Elevation (SFT)*	213.670	

Convergence Angle	0	55	17.4483122
Scale Factor	0.999935992		
Elevation Adjust. Factor	0.9999897796		
Combined Adjust. Factor	0.9999257723		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	33	53.4749724
Longitude	90	24	58.9288824
Ellipsoid Height (M):	37.494		
Geoid Height (M):	-27.730		

Location Description

TO REACH FROM THE JUNCTION OF HWY 140 AND HWY 308B IN MARKED TREE. GO NORTH ON HWY 140 FOR 2.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 19.0 FT. EAST OF THE WITNESS POST AND 44.5 FT. WEST OF THE CENTERLINE OF HWY 140. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "560010 2013" SET ONTOP OF A 5/8 IN. BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	3	43.28	142.0
MK # 2	WOODEN SIGN (THREE RIVERS COUNTRY CLUB)	271	6.10	20.0
MK # 3	TELEPHONE BOX	199	3.96	13.0

AZ Mark Station	560010A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in Novwember 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560010A	11/5/2013	AHTD	POINSETT	140	BR5611

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	137,362.2747	
Easting (M)	543,552.8532	
Elevation (M)*	65.592	
Northing (SFT)	450,662.7296	
Easting (SFT)	1,783,306.3192	
Elevation (SFT)*	215.197	

Convergence Angle	0	55	17.3377279	
Scale Factor	0.999936017			
Elevation Adjust. Factor	0.9999897066			
Combined Adjust. Factor	0.9999257242			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	33	39.8853216	
Longitude	90	24	59.1189228	
Ellipsoid Height (M):	37.958			
Geoid Height (M):	-27.725			

Location Description

TO REACH FROM THE JUNCTION OF HWY 140 AND HWY 308B IN MARKED TREE. GO NORTH ON HWY 140 FOR 2.0 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.0 FT. EAST OF THE WITNESS POST AND 44.0 FT. WEST OF THE CENTERLINE OF HWY 140. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "560010A 2013" SET ON TOP OF A 5/8 IN. BY 4.0 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	276	2.74	9.0
MK # 2	CENTER OF HEADWALL	175	17.68	58.0
MK # 3				

AZ Mark Station	560010
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3WR digital levels were ran from NGS BM N 314 and A 174 during job BR5611 by crew S5102 in Novwember 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560011	6/27/2016	AHTD	Poinsett	463	100615

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,159.3508	0.0023
Easting (M)	534,481.8841	0.0025
Elevation (M)*	66.991	
Northing (SFT)	489,366.9701	
Easting (SFT)	1,753,545.9814	
Elevation (SFT)*	219.785	

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	40	7.2241680	
Longitude	90	30	52.2282600	
Ellipsoid Height (M):	39.150			0.0068
Geoid Height (M):	-27.833			

Convergence Angle	0	51	51.8637125
Scale Factor	0.999937017		
Elevation Adjust. Factor	0.9999894871		
Combined Adjust. Factor	0.9999265048		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO SOUTHEAST ON HIGHWAY 463 FOR .85 MILES TO THE MARK ON THE RIGHT,38.5 FEET (11.73M) WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560011 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET	125	24.08	79.0
MK # 2	CENTER OF DROP INLET	305	8.38	27.5
MK # 3	LIGHT POLE	255	26.61	87.3

AZ Mark Station	560011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

MARK IS 59.2 FEET (18.04M) SOUTH OF THE CENTERLINE OF THE SECOND CONCRETE DRIVEWAY TO THE POST OFFICE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560011-1	7/18/2016	AHTD	POINSETT	308	100840

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	136,053.4630	0.0040
Easting (M)	548,446.6176	0.0040
Elevation (M)*		
Northing (SFT)	446,368.7365	
Easting (SFT)	1,799,361.9446	
Elevation (SFT)*		

Convergence Angle	0	57	9.9034787	
Scale Factor	0.999936128			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	32	54.8243664
Longitude	90	21	45.6734520
Ellipsoid Height (M):	38.299	0.0090	
Geoid Height (M):	-27.739	0.0090	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 308 AND STATE HIGHWAY 135, EAST OF MARKED TREE, GO WEST ON HIGHWAY 308 2.3 MILES TO THE MARK ON THE RIGHT, NORTH 25.6 FEET OF THE CENTERLINE OF THE HIGHWAY AND 11.5 FEET OF EAST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "560011 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	560011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWY
Ref Mon # 3	ARJB

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINTS ON NGS BM R 314 AND CORS ARJB, ARPG & ARWY IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560011A	6/27/2016	AHTD	Poinsett	463	100615

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	148,842.8769	0.0023
Easting (M)	534,830.6687	0.0025
Elevation (M)*	66.957	
Northing (SFT)	488,328.6720	
Easting (SFT)	1,754,690.2856	
Elevation (SFT)*	219.673	

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	39	56.7853560	
Longitude	90	30	38.5510320	
Ellipsoid Height (M):	39.120			0.0069
Geoid Height (M):	-27.832			

Convergence Angle	0	51	59.8224795
Scale Factor	0.999936944		
Elevation Adjust. Factor	0.9999894925		
Combined Adjust. Factor	0.9999264371		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO SOUTHEAST ON HIGHWAY 463 FOR 1.15 MILES TO THE MARK ON THE RIGHT, 53.0 FEET (16.15M) WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560011A 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	135	20.24	66.4
MK # 2	COMBINATION POLE	320	9.86	32.3
MK # 3	EAST END OF SIDEWALK	223	33.25	109.1

AZ Mark Station	560011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560011A-1	7/18/2016	AHTD	POINSETT	308	100840

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	136,044.7862	0.0040
Easting (M)	547,921.1760	0.0040
Elevation (M)*		
Northing (SFT)	446,340.2694	
Easting (SFT)	1,797,638.0583	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	32	54.8258568	
Longitude	90	22	6.5388900	
Ellipsoid Height (M):	37.884		0.0090	
Geoid Height (M):	-27.738		0.0090	

Convergence Angle	0	56	57.7618985
Scale Factor	0.999936128		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 308 AND STATE HIGHWAY 135, EAST OF MARKED TREE, GO WEST ON HIGHWAY 308 2.6 MILES TO THE MARK ON THE LEFT, SOUTH 18.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND 19.0 FEET WEST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "560011A 2016" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	560011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWY
Ref Mon # 3	ARJB

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINTS ON NGS BM R 314 AND CORS ARJB, ARPG & ARWY IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560012	6/27/2016	AHTD	Poinsett	463	100615

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	151,442.0207	0.0020
Easting (M)	532,894.5090	0.0021
Elevation (M)*	67.379	
Northing (SFT)	496,856.0296	
Easting (SFT)	1,748,338.0683	
Elevation (SFT)*	221.061	

Convergence Angle	0	51	15.9255083
Scale Factor			0.999937615
Elevation Adjust. Factor			0.9999894261
Combined Adjust. Factor			0.9999270417

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	41	22.0569000	
Longitude	90	31	53.9884560	
Ellipsoid Height (M):			39.529	0.0069
Geoid Height (M):			-27.845	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO NORTH 0N HIGHWAY 463 FOR 0.85 MILES TO THE MARK ON THE RIGHT, 65.5 FEET (19.96M) WEST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560012 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	250	250	19.81	65.0
MK # 2	270	270	10.21	33.5
MK # 3	70	70	5.94	19.5

AZ Mark Station	560012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

THE MARK IS 51.0 FEET (15.54M) NORTH OF THE CENTERLINE OF STATE HIGHWAY 214.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560012A	6/27/2016	AHTD	Poinsett	463	100615

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	151,450.7889	0.0020
Easting (M)	533,345.1501	0.0021
Elevation (M)*	67.660	

Northing (SFT)	496,884.7966	
Easting (SFT)	1,749,816.5466	
Elevation (SFT)*	221.981	

Convergence Angle	0	51	26.3573559
Scale Factor	0.999937616		
Elevation Adjust. Factor	0.9999893821		
Combined Adjust. Factor	0.9999269987		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	41	22.1229600	
Longitude	90	31	36.0612120	
Ellipsoid Height (M):	39.805			0.0065
Geoid Height (M):	-27.847			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 69 AND STATE HIGHWAY 463, IN TRUMAN, GO NORTH 0N HIGHWAY 463 FOR 0.85 MILES TO STATE HIGHWAY 214 INDUSTRIAL PARK DRIVE, THEN GO EAST ON STATE HIGHWAY 214 INDUSTRIAL PARK DRIVE 0.25 MILES TOTHE MARK ON THE LEFT, 46.5 FEET (14.17M) NORTH OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "560012A 2016" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF STORM MANHOLE	230	7.71	25.3
MK # 2	FIRE HYDRANT	100	29.44	96.6
MK # 3	MONINTERING WELL	65	2.65	8.7

AZ Mark Station	560012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

THE MARK IS 44.0 FEET (13.41M) EAST OF THE CENTERLINE OF ROBERTSON ROAD.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560013	12/4/2019	AHTD	POINSETT	118	101017, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	132,042.4048	0.0030
Easting (M)	549,441.9259	0.0020
Elevation (M)*		
Northing (SFT)	433,209.1231	
Easting (SFT)	1,802,627.3852	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	30	44.1488664	
Longitude	90	21	8.8250760	
Ellipsoid Height (M):	38.749		0.0120	
Geoid Height (M):	-27.691		0.0120	

Convergence Angle	0	57	31.3455165
Scale Factor	0.999936720		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE INTERSECTION OF INTERSTATE I-555 AND STATE HIGHWAY 118 IN TYRONZA, POINSETT COUNTY, ARKANSAS. TRAVEL EAST ALONG STATE HIGHWAY 118, 2.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560013, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 37 FEET SOUTH OF THE CENTER OF STATE HIGHWY 118 AND 25 FEET NORTH OF A IRRIGATION WELL. 15 FEET EAST OF THE CENTER OF A DIRT FIELD ENTRANCE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	IRRIGATION WELL	183	7.62	25.0
MK # 2	POWER POLE	95	53.95	177.0
MK # 3	POWER POLE	271	53.34	175.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARWY

Comments

STATIC GPS DERIVED ELEV. 217.9763

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560013A	12/4/2019	AHTD	POINSETT	118	101017, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	132,037.5123	0.0030
Easting (M)	549,815.5604	0.0020
Elevation (M)*	66.796	
Northing (SFT)	433,193.0716	
Easting (SFT)	1,803,853.2177	
Elevation (SFT)*	219.146	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	30	43.7870196	
Longitude	90	20	54.0019932	
Ellipsoid Height (M):	39.102			0.0120
Geoid Height (M):	-27.691			0.0120

Convergence Angle	0	57	39.9710555
Scale Factor	0.999936723		
Elevation Adjust. Factor	0.9999895177		
Combined Adjust. Factor	0.9999262413		

Location Description

TO REACH FROM THE INTERSECTION OF INTERSTATE I-555 AND STATE HIGHWAY 118 IN TYRONZA, POINSETT COUNTY, ARKANSAS. TRAVEL EAST ALONG STATE HIGHWAY 118, 2.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560013, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 29 FEET SOUTH OF THE CENTER OF STATE HIGHWY 118 AND 11 FEET NORTH OF A WITNESS POST. 21 FEET WEST OF THE CENTER OF A GRAVEL FIELD ENTRANCE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	183	3.66	12.0
MK # 2	POWER POLE	13	31.70	104.0
MK # 3	EAST END OF 18" METAL CULVERT	300	36.58	120.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #560013, WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560014	12/4/2019	AHTD	POINSETT	135	101017, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	138,467.0967	0.0040
Easting (M)	552,016.1884	0.0040
Elevation (M)*		
Northing (SFT)	454,287.4664	
Easting (SFT)	1,811,073.1114	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	34	11.1835776	
Longitude	90	19	22.3323852	
Ellipsoid Height (M):	39.278			0.0160
Geoid Height (M):	-27.752			0.0160

Convergence Angle	0	58	33.3135204
Scale Factor	0.999935967		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 140 AND STATE HIGHWAY 135 IN LEPANTO, POINSETT COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 3.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560014, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 65 FEET WEST OF THE CENTER OF STATE HIGHWY 135 AND 3 FEET EAST OF A WITNESS POST AND 30 FEET NORTH OF THE CENTERLINE OF POINSETT COUNTY ROAD NUMBER 86 (ALTO RD).

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	162	18.90	62.0
MK # 2	IRRIGATION WELL	185	26.82	88.0
MK # 3	POWER POLE	9	64.31	211.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARWY

Comments

STATIC GPS DERIVED ELEV. 219.9146

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560014A	12/4/2019	AHTD	POINSETT	135	101017, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	138,449.2087	0.0040
Easting (M)	552,392.9370	0.0040
Elevation (M)*	67.034	

Northing (SFT)	454,228.7789	
Easting (SFT)	1,812,309.1608	
Elevation (SFT)*	219.928	

Convergence Angle	0	58	42.0119765
Scale Factor			0.999935968
Elevation Adjust. Factor			0.9999894803
Combined Adjust. Factor			0.9999254489

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	35	34	10.3947384
Longitude	90	19	7.3839936
Ellipsoid Height (M):	39.278		0.0160
Geoid Height (M):	-27.753		0.0160

Location Description

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 140 AND STATE HIGHWAY 135 IN LEPANTO, POINSETT COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 3.4 MILES TO POINSETT COUNTY ROAD NUMBER , THEN TRAVEL EAST ALONG POINSETT COUNTY ROAD NUMBER 86 (ALTO RD) TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560014A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE,25 FEET SOUTH OF THE CENTER OF POINSETT COUNTY ROAD NUMBER 86 AND 2 FEET NORTH OF A WITNESS POST. NEAR END OF PRIVATE AIR STRIP RUNNING NORTH AND SOUTH.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE PEDESTAL	182	3.66	12.0
MK # 2	POWER POLE	11	14.94	49.0
MK # 3	N. W. COR. BLOCK ENCLOSURE AROUND F UEL TANK	115	31.39	103.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #560014, WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560015	12/4/2019	AHTD	POINSETT	135	101012, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	151,306.1406	0.0020
Easting (M)	550,127.5952	0.0020
Elevation (M)*		

Northing (SFT)	496,410.2296	
Easting (SFT)	1,804,876.9519	
Elevation (SFT)*		

Convergence Angle	0	57	54.6718308
Scale Factor	0.999937499		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	35	41	8.7694692	
Longitude	90	20	28.7385504	
Ellipsoid Height (M):	39.272			0.0080
Geoid Height (M):	-27.845			0.0080

Location Description

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 158 AND STATE HIGHWAY 135 IN CARAWAY, CRAIGHEAD COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 5.1 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560015, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 37 FEET WEST OF THE CENTER OF HIGHWAY 135 AND 10 FEET EAST OF A WITNESS POST AND 115 FEET SOUTH OF THE CENTERLINE OF POINSETT COUNTY, DITCH 57 ROAD. ACROSS HWY 135 (WEST) OF A SINGLE WIDE MOBILE HOME.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	270	3.35	11.0
MK # 2	POWER POLE	72	25.91	85.0
MK # 3	TELEPHONE PEDESTAL	358	27.74	91.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AROC
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

STATIC GPS DERIVED ELEV. 220.1971

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560015A	12/4/2019	AHTD	POINSETT	135	101012, AIRBORNE 2020

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	151,741.4218	0.0020
Easting (M)	550,121.9780	0.0020
Elevation (M)*	67.107	

Northing (SFT)	497,838.3147	
Easting (SFT)	1,804,858.5228	
Elevation (SFT)*	220.167	

Convergence Angle	0	57	54.7115447
Scale Factor	0.999937623		
Elevation Adjust. Factor	0.9999894688		
Combined Adjust. Factor	0.9999270925		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	35	41	22.8945984
Longitude	90	20	28.6703016
Ellipsoid Height (M):	39.259	0.0080	
Geoid Height (M):	-27.848	0.0080	

Location Description

TO REACH FROM THE INTERSECTION OF STATE HIGHWAY 158 AND STATE HIGHWAY 135 IN CARAWAY, CRAIGHEAD COUNTY, ARKANSAS. TRAVEL SOUTH ALONG STATE HIGHWAY 135, 4.8 MILES TO THE STATION ON THE RIGHT. THE STATION IS A 2.5" ARKANSAS DEPT. OF TRANS. ALUMINUM CAP STAMPED 560015A, DATED 2019. SET ON TOP OF A 48" REBAR, DRIVEN .4 FT BELOW THE GROUND SURFACE, 38 FEET WEST OF THE CENTER OF STATE HIGHWAY 135, AND 6 FEET EAST OF A WITNESS POST. 40 FEET SOUTH OF THE CENTER OF A DIRT FIELD ENTRANCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	272	2.13	7.0
MK # 2	SOUTH END OF A 18" METAL CULVERT	16	7.01	23.0
MK # 3	PLASTIC UTILITY MARKER (RITTER COM.)	101	22.25	73.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AROC
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #560015 WHOSE ELEVATION IS STATIC GPS DERIVED

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560016	5/9/2022	ARDOT	Poinsett	N/A	BR5614

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	142,894.9659	0.0020
Easting (M)	512,552.0412	0.0020
Elevation (M)*		
Northing (SFT)	468,814.5673	
Easting (SFT)	1,681,597.8218	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	36	53.8310268	
Longitude	90	45	27.3261348	
Ellipsoid Height (M):	46.756			0.0070
Geoid Height (M):	-27.644			0.0070

Convergence Angle	0	43	22.6450222
Scale Factor	0.999936079		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To Reach from the Jct. of Hwy 1 and Raybourn Rd. near Greenfield, go West on Raybourn Rd. for 1.8 miles to Evans Ln. Go South/Left on Evans Ln. for 1.4 miles to a gravel field road. Go West/Right for 0.4 miles to the station on the right. The station is 25.4ft South of a gravel field road, and 21.8 ft West of another gravel field road. The station mark is a 2 1/2in cap stamped "560016 2022" set ontop of a 5/8in by 4ft. rebar driven 0.10 in. below the surface

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Field Road		7.70	25.3
MK # 2	Field Road		6.60	21.7
MK # 3				

AZ Mark Station	560016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARWM, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560016A	5/9/2022	ARDOT	Poinsett	N/A	BR5614

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	142,912.0381	0.0020
Easting (M)	512,930.2571	0.0020
Elevation (M)*		
Northing (SFT)	468,870.5783	
Easting (SFT)	1,682,838.6852	
Elevation (SFT)*		

Convergence Angle	0	43	31.3949232
Scale Factor	0.999936080		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	36	54.2298420
Longitude	90	45	12.2893344
Ellipsoid Height (M):	46.409	0.0070	
Geoid Height (M):	-27.646	0.0070	

Location Description

The Jct of Hwy 1 and Raybourn Rd. near Greenfield, go west on Raybourn Rd for 1.8 miles to Evans Lane. Go South/Left on Evans for 1.4 miles to a gravel field road. Go right/west for 0.2 miles to the station on the right. The station is 23.0 ft North of a gravel field road, and 23.1ft W of a 24in metal culvert. The station mark is a 2 1/2in. cap stamped "560016A 2022" set ontop of a 5/8in. by 4ft. rebar driven 0.10in below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	center of concrete bridge	324	6.85	22.5
MK # 2	metal culvert	295	7.00	23.0
MK # 3				

AZ Mark Station	560016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARWM, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560017	11/25/2024	ARDOT	POINSETT	1	101193

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	152,183.0668	0.0010
Easting (M)	517,915.5095	0.0010
Elevation (M)*	75.572	
Northing (SFT)	499,287.2783	
Easting (SFT)	1,699,194.4674	
Elevation (SFT)*	247.940	

Convergence Angle	0	45	29.4973090	
Scale Factor			0.999937900	
Elevation Adjust. Factor			0.9999881404	
Combined Adjust. Factor			0.9999260411	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	41	52.9397520	
Longitude	90	41	49.3290960	
Ellipsoid Height (M):	47.831			0.0030
Geoid Height (M):	-27.743			

Location Description

From the Intersection of Interstate Hwy 555 and Arkansas Highway 1 South located in Jonesboro, Craighead County Arkansas, Travel South along Arkansas Highway 1, 5.9 Miles to the Station on the Right. The Station is a Standard 3 inch Aluminum ARDOT GPS Cap Stamped 560017 (2024), Set Just Below the Ground Surface on Top of a 5/8 inch Rebar 4 foot in Length.The Station is 0.5 Miles South ot the Craighead and Poinsett County Line, 59 Feet (17.98 Meters) West of the Centerline of Arkansas Highway 1 and 6 Feet (1.83 Meters) East of a Witness Post. Just North of a concrete driveway leading to metal buildings.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	280	1.83	6.0
MK # 2	Utility Marker (ATT UC)	300	3.65	12.0
MK # 3	North End of a 24 inch Corrigated Metal Pipe	170	14.32	47.0

AZ Mark Station	560017A
Geodetic Azimuth	12 27 27
Grid Azimuth	11 41 56.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWY
Ref Mon # 3	AROC

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560017A	11/25/2024	ARDOT	POINSETT	1	101193

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	152,504.1457	0.0010
Easting (M)	517,981.9966	0.0010
Elevation (M)*	75.527	
Northing (SFT)	500,340.6847	
Easting (SFT)	1,699,412.6005	
Elevation (SFT)*	247.790	

Convergence Angle	0	45	31.1345706
Scale Factor	0.999938001		
Elevation Adjust. Factor	0.9999881475		
Combined Adjust. Factor	0.9999261493		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	35	42	3.3286680	
Longitude	90	41	46.5154440	
Ellipsoid Height (M):	47.781			0.0030
Geoid Height (M):	-27.746			

Location Description

From the Intersection of Interstate Hwy 555 and Arkansas Highway 1 South located in Jonesboro, Craighead County Arkansas, Travel South along Arkansas Highway 1, 5.7 Miles to the Station on the Right. The Station is a Standard 3 inch Aluminum ARDOT GPS Cap Stamped 560017 (2024), Set Just Below the Ground Surface on Top of a 5/8 inch Rebar 4 foot in Length.The Station is 0.3 Miles South ot the Craighead and Poinsett County Line, 61 Feet (18.59 Meters) West of the Centerline of Arkansas Highway 1 and 3 Feet (0.91 Meters) East of a Witness Post. Just south of Poinsett Package Store.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Utility Marker (ATT UC)	0	20.73	68.0
MK # 2	Combination Pole	192	27.74	91.0
MK # 3	Sount End of a 24" corrigated Plastic Pipe	50	6.71	22.0

AZ Mark Station	560017
Geodetic Azimuth	192 27 27
Grid Azimuth	191 41 56.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARWY
Ref Mon # 3	AROC

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS 160017 AND TBM 904 FROM JOB 100979 DURING JOB 101193 BY CREW S5101 IN DEC 2024

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570001	2/2/1994	AHTD	POLK	71	40029

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	584,952.4039	
Easting (M)	184,122.0610	
Elevation (M)*	322.628	
Northing (SFT)	1,919,131.3451	
Easting (SFT)	604,073.7951	
Elevation (SFT)*	1,058.489	

Convergence Angle	-1	18	46.3235691
Scale Factor	0.999930158		
Elevation Adjust. Factor	0.9999493717		
Combined Adjust. Factor	0.9998795332		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	18	42.8833296
Longitude	94	20	44.5278084
Ellipsoid Height (M):	293.049		
Geoid Height (M):	-29.579		

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 4 IN WICKES, GO NORTH ON HWY. 71 FOR 1.07 KM (0.67 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.29 METERS SOUTHWEST OF THE CENTERLINE OF HWY. 71 AND 0.75 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "570001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GAS METER	178	14.57	47.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	570001A
Geodetic Azimuth	145 26 01.84233
Grid Azimuth	146 44 48.20137

Area Reference Monuments (used for Processing)

Ref Mon # 1	HELMPORT
Ref Mon # 2	MENAPORT
Ref Mon # 3	GILLHAM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570001A	2/2/1994	AHTD	POLK	71	40029

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	584,280.3299	
Easting (M)	184,562.7480	
Elevation (M)*	319.157	
Northing (SFT)	1,916,926.3823	
Easting (SFT)	605,519.6157	
Elevation (SFT)*	1,047.101	

Convergence Angle	-1	18	36.3423695
Scale Factor	0.999929660		
Elevation Adjust. Factor	0.9999499164		
Combined Adjust. Factor	0.9998795799		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	18	21.4037244	
Longitude	94	20	26.6943876	
Ellipsoid Height (M):	289.617			
Geoid Height (M):	-29.540			

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 4 IN WICKES, GO NORTH ON HWY. 71 FOR 0.27 KM (0.17 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 13.119 METERS EAST NORTHEAST OF THE CENTERLINE OF HWY. 71 AND 0.50 METERS WEST SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "570001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	328	42.40	139.1
MK # 2	COMBINATION POLE	141	22.23	72.9
MK # 3	NONE			

AZ Mark Station	570001
Geodetic Azimuth	325 26 11.89421
Grid Azimuth	326 44 48.20137

Area Reference Monuments (used for Processing)

Ref Mon # 1	HELMPORT
Ref Mon # 2	MENAPORT
Ref Mon # 3	GILLHAM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570002	8/16/2000	AHTD	POLK	270	040398, 040353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	627,330.5644	
Easting (M)	184,445.7327	
Elevation (M)*		
Northing (SFT)	2,058,167.0267	
Easting (SFT)	605,135.7080	
Elevation (SFT)*		

Convergence Angle	-1	19	0.5596729
Scale Factor			0.999984589
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	41	38.1014520
Longitude	94	21	9.9634716
Ellipsoid Height (M):	445.344		
Geoid Height (M):	-30.640		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 13.95 KM (8.67 MI) TO THE JUNCTION OF STATE HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON U.S. HIGHWAY 270 FOR 1.42 KM (0.88 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.95 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.32 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570002 2000" SET ON TOP OF AN IRON ROD 0.61 METERS AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 659.129.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	570002A
Geodetic Azimuth	118 41 56.91358
Grid Azimuth	120 00 57.58101

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570002A	8/16/2000	AHTD	POLK	270	040398, 040353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	627,000.8639
Easting (M)	185,016.4228
Elevation (M)*	
Northing (SFT)	2,057,085.3343
Easting (SFT)	607,008.0471
Elevation (SFT)*	
Convergence Angle	-1 18 47.8470489
Scale Factor	0.999984017
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	41	27.8298780
Longitude	94	20	47.2498116
Ellipsoid Height (M):	454.958		
Geoid Height (M):	-30.619		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 13.95 KM (0.88 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.97 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570002A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 659.129 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	570002
Geodetic Azimuth	298 42 09.84156
Grid Azimuth	300 00 57.58101

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570003	8/16/2000	AHTD	POLK	270	040353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	625,652.1704	
Easting (M)	189,280.0255	
Elevation (M)*	446.371	
Northing (SFT)	2,052,660.4957	
Easting (SFT)	620,996.2170	
Elevation (SFT)*	1,464.469	

Convergence Angle	-1	17	13.4490253
Scale Factor	0.999981781		
Elevation Adjust. Factor	0.9999299547		
Combined Adjust. Factor	0.9999117370		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	40	47.2128024
Longitude	94	17	58.5887532
Ellipsoid Height (M):	415.945		
Geoid Height (M):	-30.489		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 10.22 KM (6.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.70 METERS NORTH OF A CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570003 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 495.380 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	570003A
Geodetic Azimuth	122 40 50.69234
Grid Azimuth	123 58 04.21742

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

3 WIRE LEVELS FROM H 58

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570003A	8/16/2000	AHTD	POLK	270	040353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	625,375.4057
Easting (M)	189,690.8432
Elevation (M)*	436.709
Northing (SFT)	2,051,752.4769
Easting (SFT)	622,344.0414
Elevation (SFT)*	1,432.769

Convergence Angle	-1	17	4.2823134
Scale Factor			0.999981308
Elevation Adjust. Factor			0.9999314708
Combined Adjust. Factor			0.9999127801

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	40	38.5326228
Longitude	94	17	42.2105784
Ellipsoid Height (M):	406.316		
Geoid Height (M):	-30.472		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 9.74 KM (6.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.12 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570003A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 495.380 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF A CONCRETE HEADWALL	106	10.75	35.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	570003
Geodetic Azimuth	302 41 00.01106
Grid Azimuth	303 58 04.21742

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570004	8/16/2000	AHTD	POLK	270	040353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	623,090.3347
Easting (M)	193,466.7931
Elevation (M)*	385.725
Northing (SFT)	2,044,255.5398
Easting (SFT)	634,732.3037
Elevation (SFT)*	1,265.499

Convergence Angle	-1	15	40.1779458
Scale Factor			0.999977486
Elevation Adjust. Factor			0.9999394708
Combined Adjust. Factor			0.9999169582

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	39	27.1172160
Longitude	94	15	11.9412072
Ellipsoid Height (M):	355.413		
Geoid Height (M):	-30.330		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 5.23 KM (3.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 32.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 15.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570004 2000" SET ON TOP OF AN IRON ROD 0.33 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 419.099 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK H 58.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF A CONCRETE HEADWALL	298	20.90	68.6
MK # 2	EAST END OF A CMP	280	27.00	88.6
MK # 3	NONE			

AZ Mark Station	570004A
Geodetic Azimuth	89 49 05.055915
Grid Azimuth	91 04 45.307750

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570004A	8/16/2000	AHTD	POLK	270	040353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	623,082.4413	
Easting (M)	193,885.7882	
Elevation (M)*	383.838	
Northing (SFT)	2,044,229.6428	
Easting (SFT)	636,106.9568	
Elevation (SFT)*	1,259.309	

Convergence Angle	-1	15	30.9664148
Scale Factor	0.999977488		
Elevation Adjust. Factor	0.9999397669		
Combined Adjust. Factor	0.9999172563		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	39	27.1600884
Longitude	94	14	55.4829540
Ellipsoid Height (M):	353.538		
Geoid Height (M):	-30.323		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO WEST ON U.S. HIGHWAY 270 FOR 4.83 KM (3.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.52 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 270 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570004A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 419.099 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS H 58.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	570004
Geodetic Azimuth	269 49 14.41523
Grid Azimuth	271 04 45.30775

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570005	8/16/2000	AHTD	POLK	71	040353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	620,501.9659	
Easting (M)	197,915.3763	
Elevation (M)*	331.346	
Northing (SFT)	2,035,763.5331	
Easting (SFT)	649,327.3637	
Elevation (SFT)*	1,087.091	

Convergence Angle	-1	14	1.1912540
Scale Factor			0.999973304
Elevation Adjust. Factor			0.9999480037
Combined Adjust. Factor			0.9999213091

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	38	6.2809404
Longitude	94	12	15.0815700
Ellipsoid Height (M):	301.178		
Geoid Height (M):	-30.168		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.35 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570005 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 640.344 METERS. ELEVATION ON THIS STATION WA ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK T 300.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKER	271	0.65	2.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	570005
Geodetic Azimuth	4 25 22.375335
Grid Azimuth	5 39 23.575006

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570005A	8/16/2000	AHTD	POLK	71	040353

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	621,139.1483	
Easting (M)	197,978.4876	
Elevation (M)*	331.132	
Northing (SFT)	2,037,854.0224	
Easting (SFT)	649,534.4214	
Elevation (SFT)*	1,086.389	

Convergence Angle	-1	14	0.1060845
Scale Factor			0.999974361
Elevation Adjust. Factor			0.9999480373
Combined Adjust. Factor			0.9999223996

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	38	26.9984580	
Longitude	94	12	13.1426964	
Ellipsoid Height (M):	300.946			
Geoid Height (M):	-30.186			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 270 WEST AND U.S. HIGHWAY 71, LOCATED IN ACRON, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS EAST OF THE CENTER OF COUNTY ROAD 114, 10.85 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570005A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 640.344 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK T 300.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKER	288	7.75	25.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	570005
Geodetic Azimuth	184 25 23.47737
Grid Azimuth	185 39 23.57501

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570006	4/2/2002	AHTD	POLK	71	030249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	571,736.4709	
Easting (M)	186,262.4060	
Elevation (M)*	226.867	
Northing (SFT)	1,875,772.0716	
Easting (SFT)	611,095.9104	
Elevation (SFT)*	744.313	

Convergence Angle	-1	17	52.9261237
Scale Factor	0.999922296		
Elevation Adjust. Factor	0.9999643984		
Combined Adjust. Factor	0.9998866972		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	11	35.6384004
Longitude	94	19	9.1225308
Ellipsoid Height (M):	198.599		
Geoid Height (M):	-28.268		

Location Description

TO REACH THE STATION FROM THE SEVIER/POLK COUNTY LINE LOCATED ON THE NORTH SIDE OF GILLHAM , GO NORTH ON U.S. HIGHWAY 71 FOR 0.14 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, 5.23 METERS WEST OF A BARB WIRE FENCE LINE, AND 0.92 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "570006 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL BY CREW S5102 FROM NOAA BENCH MARK H 302.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	23	5.00	16.4
MK # 2	WOODEN FENCE POST	144	3.40	11.2
MK # 3				

AZ Mark Station	660018
Geodetic Azimuth	198 37 36
Grid Azimuth	199 55 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570007	1/21/2003	AHTD	POLK	270	040398

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	628,841.6809
Easting (M)	175,612.3320
Elevation (M)*	
Northing (SFT)	2,063,124.7481
Easting (SFT)	576,154.7926
Elevation (SFT)*	
Convergence Angle	-1 22 15.5499022
Scale Factor	0.999986969
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 42 20.4033672
Longitude	94 26 58.3527408
Ellipsoid Height (M):	351.642
Geoid Height (M):	-30.887

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS OKLAHOMA STATE LINE AND STATE HIGHWAY 270, GO EAST ON 270 0.30 MILES TO THE STATION ON THE RIGHT. 14.0 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 3.55 METERS NORTH OF A WITNESS POST. THE CAP IS A STANDARD 64mm CAP STAMPED "570007 2003" ON TOP OF A 1.10 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	120	11.70	38.4
MK # 2				
MK # 3				

AZ Mark Station	570007A
Geodetic Azimuth	95 27 05
Grid Azimuth	96 49 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	DeQueen CORS 1
Ref Mon # 2	AHTD HOP1
Ref Mon # 3	Russport

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570007A	1/21/2003	AHTD	POLK	270	040398

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	628,772.8190
Easting (M)	176,187.8980
Elevation (M)*	
Northing (SFT)	2,062,898.8237
Easting (SFT)	578,043.1287
Elevation (SFT)*	
Convergence Angle	-1 22 2.8586300
Scale Factor	0.999986868
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 42 18.6156288
Longitude	94 26 35.6772300
Ellipsoid Height (M):	355.327
Geoid Height (M):	-30.872

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS OKLAHOMA STATE LINE AND STATE HIGHWAY 270, GO EAST ON HIGHWAY 270 0.70 MILES TO THE STATION ON THE RIGHT. 14.20 METERS SOUTH OF THE CENTER OF THE HIGHWAY AND 1.90 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "570007A 2003" ON TOP OF A 0.66 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	570007
Geodetic Azimuth	275 27 18
Grid Azimuth	276 49 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	DeQueen CORS 1
Ref Mon # 2	AHTD HOP1
Ref Mon # 3	Russport

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570008	1/21/2003	AHTD	POLK	270	040398

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	628,419.6390
Easting (M)	179,832.8970
Elevation (M)*	
Northing (SFT)	2,061,740.0990
Easting (SFT)	590,001.7629
Elevation (SFT)*	
Convergence Angle	-1 20 42.5324184
Scale Factor	0.999986377
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	42	9.9573264
Longitude	94	24	12.1582944
Ellipsoid Height (M):	394.927		
Geoid Height (M):	-30.777		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 270 AND HIGHWAY 71, NORTH OF MENA, GO WEST ON HIGHWAY 270 8.67 MILES TO HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON HIGHWAY 270 3.40 MILES TO THE STATION ON THE RIGHT. 36.1 METERS WEST OF A GRAVEL ROAD CROSSING THE RAIL ROAD, 15.9 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 10.7 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "570008 2003" ON TOP OF A 1.05 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	HEAD WALL	108	17.00	55.8
MK # 2				
MK # 3				

AZ Mark Station	570008A
Geodetic Azimuth	96 43 19
Grid Azimuth	98 04 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	DeQueen CORS 1
Ref Mon # 2	AHTD HOP1
Ref Mon # 3	Russport

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570008A	1/21/2003	AHTD	POLK	270	040398

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	628,364.6410
Easting (M)	180,220.9350
Elevation (M)*	
Northing (SFT)	2,061,559.6597
Easting (SFT)	591,274.8509
Elevation (SFT)*	
Convergence Angle	-1 20 33.9723807
Scale Factor	0.999986293
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 42 8.4683808
Longitude	94 23 56.8640652
Ellipsoid Height (M):	397.577
Geoid Height (M):	-30.766

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 270 AND HIGHWAY 71, NORTH OF MENA, GO WEST ON HIGHWAY 270 8.67 MILES TO HIGHWAY 272 ON THE LEFT, CONTINUE WEST ON HIGHWAY 270 FOR 3.1 MILES TO THE STATION ON THE RIGHT. 9.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 5.80 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "570008A 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	570008
Geodetic Azimuth	276 43 28
Grid Azimuth	278 04 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	DeQueen CORS 1
Ref Mon # 2	AHTD HOP1
Ref Mon # 3	Russport

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570009	11/15/2004	AHTD	POLK	71	040444

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	613,952.8069	
Easting (M)	194,545.6530	
Elevation (M)*	343.060	
Northing (SFT)	2,014,276.8340	
Easting (SFT)	638,271.8632	
Elevation (SFT)*	1,125.523	

Convergence Angle	-1	15	12.0758487
Scale Factor	0.999962937		
Elevation Adjust. Factor	0.9999461656		
Combined Adjust. Factor	0.9999091046		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	34	31.4182200
Longitude	94	14	21.7311576
Ellipsoid Height (M):	313.037		
Geoid Height (M):	-30.023		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, IN MENA, GO SOUTH ON HIGHWAY 71 0.60 MILES TO THE STATION ON THE LEFT, 14.0 METERS NORTHWEST OF THE CENTERLINE OF PINE STREET AND SOUTHEAST OF THE CENTERLINE OF 71 12.30 METERS, AND NORTHWEST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570009 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF CONCRETE BOX	91	18.30	60.0
MK # 2	TELEPHONE RISER	157	20.60	67.6
MK # 3	WESTERN MOST GUARD RAIL POST	33	20.90	68.6

AZ Mark Station	570009A
Geodetic Azimuth	1 02 24
Grid Azimuth	2 17 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEANAPORT AZ
Ref Mon # 2	SAL 1
Ref Mon # 3	DQUA

Comments

3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570009A	11/15/2004	AHTD	POLK	71	040444

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	614,390.3169	
Easting (M)	194,563.1740	
Elevation (M)*	350.206	
Northing (SFT)	2,015,712.2314	
Easting (SFT)	638,329.3467	
Elevation (SFT)*	1,148.968	

Convergence Angle	-1	15	11.9013272
Scale Factor	0.999963589		
Elevation Adjust. Factor	0.9999450443		
Combined Adjust. Factor	0.9999086353		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	34	45.6258828
Longitude	94	14	21.4193400
Ellipsoid Height (M):	320.166		
Geoid Height (M):	-30.040		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, IN MENA, GO SOUTH ON HIGHWAY 71 0.35 MILES TO THE STATION ON THE RIGHT, NORTH OF THE CENTERLINE OF10th STREET 16.25 METERS, AND WEST OF THE CENTERLINE OF 71 13.30 METERS, AND EAST OF A WITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "570009A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	C/L MANHOLE	225	14.20	46.6
MK # 2	TELEPHONE RISER	279	19.20	63.0
MK # 3	COMBINATION POLE	351	17.10	56.1

AZ Mark Station	570009
Geodetic Azimuth	181 02 24
Grid Azimuth	182 17 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEANAPORT AZ
Ref Mon # 2	SAL 1
Ref Mon # 3	DQUA

Comments

3 WIRE LEVELS FROM K 21, 7/26/05 BY S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570010	6/19/2007	AHTD	POLK	71	040488

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	591,660.5539	
Easting (M)	180,815.3760	
Elevation (M)*	328.288	
Northing (SFT)	1,941,139.6673	
Easting (SFT)	593,225.1128	
Elevation (SFT)*	1,077.059	

Convergence Angle	-1	20	2.1111220
Scale Factor	0.999935739		
Elevation Adjust. Factor	0.9999484835		
Combined Adjust. Factor	0.9998842259		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	22	18.0629688	
Longitude	94	22	59.9375172	
Ellipsoid Height (M):	298.957			
Geoid Height (M):	-29.329			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 246, SOUTH OF MENA, GO SOUTH ON HIGHWAY 71 FOR 0.6 MILES TO THE STATION MARK ON THE RIGHT, SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY 32.4 FEET AND NORTHEAST 13.0 FEET OF A WITNESS POST. THE STATION MAK IS A STANDARD 2 1/2 INCH CAP STAMPED "570010 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	242	3.96	13.0
MK # 2	GAS METER	181	40.54	133.0
MK # 3	LIGHT POLE	270	30.78	101.0

AZ Mark Station	570010A
Geodetic Azimuth	148 06 31
Grid Azimuth	149 26 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ
Ref Mon # 2	DQUA
Ref Mon # 3	OKHV

Comments

3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570010A	6/19/2007	AHTD	POLK	71	040488

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	591,117.4288	
Easting (M)	181,136.0360	
Elevation (M)*	339.243	
Northing (SFT)	1,939,357.7643	
Easting (SFT)	594,277.1448	
Elevation (SFT)*	1,112.999	

Convergence Angle	-1	19	54.8117625
Scale Factor	0.999935248		
Elevation Adjust. Factor	0.9999467646		
Combined Adjust. Factor	0.9998820160		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	22	0.6825576
Longitude	94	22	46.8957432
Ellipsoid Height (M):	309.962		
Geoid Height (M):	-29.288		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 246, SOUTH OF MENA, GO SOUTH ON HIGHWAY 71 FOR 0.9 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 35.0 FEET OF A GRAVEL DRIVE, NORTHEAST 27.0 FEET OF THE CENTERLINE OF THE HIGHWAY, AND SOUTHWEST 38.0 FEET OF A WITNESS POST. THE STATION MAK IS A STANDARD 2 1/2 INCH CAP STAMPED "570010A 2007" ON TOP OF A 3.5 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANDT	249	25.66	84.2
MK # 2	GAS METER	340	31.49	103.3
MK # 3	LIGHT POLE	91	18.29	60.0

AZ Mark Station	570010
Geodetic Azimuth	328 06 38
Grid Azimuth	329 26 33

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ
Ref Mon # 2	DQUA
Ref Mon # 3	OKHV

Comments

3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570011	6/5/2019	ARDOT	POLK	71	040787

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	622,220.1825	0.0020
Easting (M)	202,028.3395	0.0020
Elevation (M)*	336.765	
Northing (SFT)	2,041,400.7154	
Easting (SFT)	662,821.3105	
Elevation (SFT)*	1,104.871	

Convergence Angle	-1	12	31.6247488
Scale Factor	0.999976319		
Elevation Adjust. Factor	0.9999471533		
Combined Adjust. Factor	0.9999234736		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	39	4.8734964
Longitude	94	9	35.0529912
Ellipsoid Height (M):	306.523		0.0100
Geoid Height (M):	-30.217		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270, IN ACORN, GO NORTH ON HIGHWAY 71 2.4 MILES TO THE MARK ON THE RIGHT, SOUTH SOUTHEAST 37.6' OF THE C/L OF THE HIGHWAY. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 570011" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	243	23.65	77.6
MK # 2	UC MARKER	230	21.34	70.0
MK # 3	C/L HDWL	262	24.38	80.0

AZ Mark Station	570011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's Q 300 & ACORN BY S5112 IN JUNE 2019 FOR JOB #040787.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570011A	6/5/2019	ARDOT	POLK	71	040787

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	622,415.1063	0.0030
Easting (M)	202,359.4332	0.0030
Elevation (M)*	333.962	
Northing (SFT)	2,042,040.2279	
Easting (SFT)	663,907.5738	
Elevation (SFT)*	1,095.674	

Convergence Angle	-1	12	24.4393473
Scale Factor	0.999976662		
Elevation Adjust. Factor	0.9999475932		
Combined Adjust. Factor	0.9999242564		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	39	11.4243228
Longitude	94	9	22.2148260
Ellipsoid Height (M):	303.724	0.0110	
Geoid Height (M):	-30.214	0.0110	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270, IN ACORN, GO NORTH ON HIGHWAY 71 2.65 MILES TO THE MARK ON THE RIGHT, SOUTHEAST 39.3' OF THE C/L OF THE HIGHWAY AND NORTHEAST 76' OF THE C/L OF POLK COUNTY ROAD 45. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 570011A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/2 GUYS AND TRANSFORM ER	208	30.78	101.0
MK # 2	POWER POLE W/ TELEPHONE BOX	57	4.51	14.8
MK # 3				

AZ Mark Station	570011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's Q 300 & ACORN BY S5112 IN JUNE 2019 FOR JOB #040787.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570012	2/25/2020	ARDOT	POLK	CR 192	040789, 040893

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	614,997.3066	0.0040
Easting (M)	208,286.6294	0.0030
Elevation (M)*	290.221	0.0009
Northing (SFT)	2,017,703.6634	
Easting (SFT)	683,353.7166	
Elevation (SFT)*	952.167	

Convergence Angle	-1	10	10.8591079
Scale Factor	0.999964940		
Elevation Adjust. Factor	0.9999544569		
Combined Adjust. Factor	0.9999193985		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	35	14.7366924
Longitude	94	5	23.5468572
Ellipsoid Height (M):	260.383	0.0120	
Geoid Height (M):	-29.787	0.0120	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 7.0 MILES TO COUNTY ROAD 192 ON THE LEFT. TURN LEFT (NORTH) ON cr 192 AND GO 0.15 MILES TO THE MARK ON THE LEFT, WEST 36' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570012" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/LIGHT AND TELEPHONE BOX	30	14.17	46.5
MK # 2	CENTER OF GATE	275	36.88	121.0
MK # 3	FENCE CORNER	101	6.22	20.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARGS, ARHP

Comments

ELEVATIONS DETERMINED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 134 AND J 134 BY CREW S5101 DURING JOB 040893.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570012A	2/25/2020	ARDOT	POLK	88	040789

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	614,736.4799	0.0040
Easting (M)	208,017.7014	0.0030
Elevation (M)*	285.918	0.0008
Northing (SFT)	2,016,847.9345	
Easting (SFT)	682,471.4087	
Elevation (SFT)*	938.049	

Convergence Angle	-1	10	16.6471917
Scale Factor	0.999964537		
Elevation Adjust. Factor	0.9999551322		
Combined Adjust. Factor	0.9999196708		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	35	6.0955260
Longitude	94	5	33.8884332
Ellipsoid Height (M):	256.085		0.0110
Geoid Height (M):	-29.785		0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 6.85 MILES TO THE MARK ON THE LEFT, NORTH 26.9' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570012A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	70	13.59	44.6
MK # 2	WOODEN FENCE POST	298	11.28	37.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARGS, ARHP

Comments

ELEVATIONS DETERMINED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 134 AND J 134 BY CREW S5101 DURING JOB 040893.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570013	2/25/2020	ARDOT	POLK	88	040789

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	614,672.2751	0.0040
Easting (M)	215,892.0989	0.0030
Elevation (M)*		
Northing (SFT)	2,016,637.2892	
Easting (SFT)	708,305.9945	
Elevation (SFT)*		

Convergence Angle	-1	7	23.7136747
Scale Factor	0.999964678		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	35	9.1289868	
Longitude	94	0	24.9079176	
Ellipsoid Height (M):	251.069			0.0110
Geoid Height (M):	-29.552			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 11.95 MILES TO THE MARK ON THE LEFT, NORTH 30.8' OF THE C/L OF THE HIGHWAY AND EAST 17.9' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	R/W MARKER	8	4.05	13.3
MK # 2	POWER POLE	48	4.66	15.3
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARGS, ARHP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570013A	2/25/2020	ARDOT	POLK	88	040789

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	614,635.1366	0.0040
Easting (M)	216,345.1663	0.0030
Elevation (M)*		
Northing (SFT)	2,016,515.4440	
Easting (SFT)	709,792.4331	
Elevation (SFT)*		

Convergence Angle	-1	7	13.7491725
Scale Factor	0.999964635		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	35	8.2118364	
Longitude	94	0	7.1043300	
Ellipsoid Height (M):	242.898			0.0110
Geoid Height (M):	-29.538			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 88 AND STATE HIGHWAY 71, EAST OF MENA, GO EAST ON HIGHWAY 88 12.2 MILES TO THE MARK ON THE LEFT, NORTH 41.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 570013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/ GUY	288	25.54	83.8
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARGS, ARHP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570014	1/5/2021	AHTD	Polk	71	04X099

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	602,110.7107	0.0030
Easting (M)	180,623.0418	0.0030
Elevation (M)*		
Northing (SFT)	1,975,424.8900	
Easting (SFT)	592,594.0963	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	27	56.9833848	
Longitude	94	23	17.0045484	
Ellipsoid Height (M):	242.587			0.0140
Geoid Height (M):	-30.046			0.0140

Convergence Angle	-1	20	11.6633804
Scale Factor	0.999946737		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 246 WEST IN HATFIELD,AR , GO SOUTH ON US HWY. 71 FOR 1.65 MILES TO THE STATION ON THE LEFT. THE POINT IS 29.7' SOUTHEAST OF THE CL OF US HWY. 71, 16' NORTH OF THE SOUTH END OF A 18" CMP

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF A METAL GATE	115	9.14	30.0
MK # 2				
MK # 3				

AZ Mark Station	570014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS, ARFY
Ref Mon # 3	ARRV, OKMC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570014A	1/5/2021	AHTD	Polk	71	04X099

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	601,807.9705	0.0030
Easting (M)	180,358.3438	0.0030
Elevation (M)*		

Northing (SFT)	1,974,431.6499	
Easting (SFT)	591,725.6663	
Elevation (SFT)*		

Convergence Angle	-1	20	17.3119252
Scale Factor	0.999946373		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	27	46.9603116	
Longitude	94	23	27.0968100	
Ellipsoid Height (M):	234.866			0.0140
Geoid Height (M):	-30.038			0.0140

Location Description

FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 246 WEST IN HATFIELD, AR, GO SOUTH ON US HWY. 71 FOR 1.9 MILES TO THE STATION ON THE RIGHT. THE STATION IS 52.4' NORTHWEST OF THE CL OF US HWY. 71, 15.5' SOUTHEAST OF A H BRACE IN A 6 BARB WIRE FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	267	10.73	35.2
MK # 2				
MK # 3				

AZ Mark Station	570014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS, ARFY
Ref Mon # 3	ARRV, OKMC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570022	7/7/2025	ARDOT	Newton	7	90246

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		

Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:		
Elevation Datum:		
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 7 AND ARKANSAS STATE HIGHWAYS 123 WEST AND 16 EAST LOCATED IN THE SMALL COMMUNITY 0F PELSER IN NORTHERN POPE COUNTY ARKANSAS, TRAVEL NORTH ALONG ARKANSAS STATE HIGHWAY 7 FOR 0.55 MILES TO THE STATION ON THE LEFT. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 570022, 2025 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/ 8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS 75 FEET (22.86 M) NORTH OF THE CENTER OF A ASPHALT DRIVEWAY, 27 FEET (7.09 M) EAST OF THE HIGHWAY CENTERLINE AND 12 FEET (3.66 M) EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S.E. CORNER MOBIL HOME	340	20.72	68.0
MK # 2	N. E. CORNER 1 STORY FRAME HOUSE	195	27.13	89.0
MK # 3				

AZ Mark Station	570022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
570022A	7/7/2025	ARDOT	Newton	7	90246

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

FROM THE INTERSECTION OF ARKANSAS STATE HIGHWAY 7 AND ARKANSAS STATE HIGHWAYS 123 WEST AND 16 EAST LOCATED IN THE SMALL COMMUNITY 0F PELSER IN NORTHERN POPE COUNTY ARKANSAS, TRAVEL NORTH ALONG ARKANSAS STATE HIGHWAY 7 FOR 0.84 MILES TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS MONUMENT STAMPED 570022A, 2025 SET FLUSH WITH THE GROUND SURFACE ON TOP OF A 5/ 8 INCH REBAR 4 FOOT IN LENGTH. THE STATION IS SET ON TOP OF A HIGHWAY ENBANKMENT 39 FEET (1.88 M) EAST OF THE HIGHWAY CENTERLINE AND 12 FEET (3.66 M) EAST OF A WITNESS POST

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	190	29.87	98.0
MK # 2	DOWN GUY	160	29.87	98.0
MK # 3				

AZ Mark Station	570022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580001	6/4/1990	AHTD	POPE	64	R80072, 8971

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	108,655.6166	
Easting (M)	293,405.1426	
Elevation (M)*	109.949	
Northing (SFT)	356,480.9688	
Easting (SFT)	962,613.3720	
Elevation (SFT)*	360.724	

Convergence Angle	0	40	55.4800555
Scale Factor			0.999947575
Elevation Adjust. Factor			0.9999827457
Combined Adjust. Factor			0.9999303216

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	25.2418752
Longitude	93	10	19.7692644
Ellipsoid Height (M):			
Geoid Height (M):	-29.750		

Location Description

FROM RUSSELLVILLE GO WEST ON HWY. 64 0.35 MILES NORTH OF THE BRIDGE OVER THE RAILROAD. THE STATION IS 0.22 FEET EAST OF THE CENTERLINE OF HWY. 64, 2.5 FEET EAST OF A GUARDRAIL AND 1.5 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT IN END OF BOLT GUARDRAI	145	2.16	7.1
MK # 2	PUNCH POINT IN END OF BOLT GUARDRAI	295	1.95	6.4
MK # 3	PUNCH POINT IN END OF BOLT GUARDRAI	315	5.65	18.5

AZ Mark Station	90580002
Geodetic Azimuth	113 11 54
Grid Azimuth	113 52 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEBO
Ref Mon # 2	BROWN
Ref Mon # 3	FURGERSON

Comments

Old point number 90580001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580002	6/4/1990	AHTD	POPE	326	R80072, 8971

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	108,456.5981
Easting (M)	293,854.9359
Elevation (M)*	109.554
Northing (SFT)	355,828.0223
Easting (SFT)	964,089.0689
Elevation (SFT)*	359.428

Convergence Angle	0	40	45.0654127
Scale Factor			0.999947722
Elevation Adjust. Factor			0.9999828077
Combined Adjust. Factor			0.9999305306

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	18	18.9575928	
Longitude	93	10	1.8715872	
Ellipsoid Height (M):				
Geoid Height (M):	-29.746			

Location Description

FROM RUSSELLVILLE GO WEST ON HWY. 64 TO THE JCT. OF HWY. 326, THEN RIGHT 0.20 MILES TO A PARKING AREA OVERLOOKING THE LAKE. THE STATION IS BEHIND THE NORTHWEST CORNER OF A GUARDRAIL, 3 FEET FROM THE RAIL, 64 FEET NORTH OF THE CENTERLINE OF HWY. 326 AND 2 FEET SOUTHEAST OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT IN TOP OF GUARDRAIL POST	75	2.71	8.9
MK # 2	PUNCH POINT IN TOP OF GUARDRAIL POST	175	2.27	7.4
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90580001
Geodetic Azimuth	293 12 04
Grid Azimuth	293 52 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEBO
Ref Mon # 2	BROWN
Ref Mon # 3	FURGERSON

Comments

Old point number 90580002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580003	6/4/1990	AHTD	POPE	64	8971

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	105,479.5671	
Easting (M)	296,615.8130	
Elevation (M)*		
Northing (SFT)	346,060.8797	
Easting (SFT)	973,147.0465	
Elevation (SFT)*		

Convergence Angle	0	39	40.6825081
Scale Factor	0.999950070		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	16	43.4078472
Longitude	93	8	11.2288632
Ellipsoid Height (M):			
Geoid Height (M):	-29.726		

Location Description

AT RUSSELLVILLE ON MAIN STREET, ON THE SOUTHWEST CORNER OF THE INTERSECTION OF MAIN AND SOUTH DENVER STREETS IN A CRACK IN A CONCRETE AREA BETWEEN THE EDGE OF THE PAVEMENT AND THE PARKING LOT OF RAY PONTIAC. THE STATION IS 35 FEET SOUTH OF THE CENTERLINE OF HWY. 64 AND 18 FEET WEST OF THE CURB.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	185	2.27	7.4
MK # 2	NBC IN LIGHT POLE	288	22.39	73.4
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90580004
Geodetic Azimuth	192 24 32
Grid Azimuth	193 04 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEBO
Ref Mon # 2	BROWN
Ref Mon # 3	FURGERSON

Comments

Old point number 90580003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580004	6/4/1990	AHTD	POPE	64	8971

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	105,185.2041
Easting (M)	296,547.4740
Elevation (M)*	
Northing (SFT)	345,095.1238
Easting (SFT)	972,922.8376
Elevation (SFT)*	
Convergence Angle	0 39 42.1777650
Scale Factor	0.999950317
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	16	33.8308212
Longitude	93	8	13.7984784
Ellipsoid Height (M):			
Geoid Height (M):	-29.728		

Location Description

AT RUSSELLVILLE ON SOUTH DENVER STREET. THE STATION IS 16 FEET WEST OF THE CENTERLINE OF SOUTH DENVERSTREET, 102.5 FEET SOUTH OF WEST 3RD STREET, 195 FEET NORTH OF WEST 4TH STREET IN FRONT OF THE ARKANSAS STATE REVENUE OFFICE, DRIVER CONTROL, DEPARTMENT OF FINANCE & ADMINISTRATION, 1.7 FEET BACK OF THE CURB AND 2.7 FEET WEST OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	20	24.67	80.9
MK # 2	NBC IN TELEPHONE POLE	164	13.52	44.3
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90580003
Geodetic Azimuth	12 24 31
Grid Azimuth	13 04 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEBO
Ref Mon # 2	BROWN
Ref Mon # 3	FURGERSON

Comments

Old point number 90580004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580005	11/29/1994	AHTD	POPE	124	8900,080427

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	109,012.5622	
Easting (M)	299,833.8019	
Elevation (M)*	135.169	
Northing (SFT)	357,652.0478	
Easting (SFT)	983,704.7317	
Elevation (SFT)*	443.466	

Convergence Angle	0	38	27.4965501
Scale Factor			0.999947251
Elevation Adjust. Factor			0.9999787881
Combined Adjust. Factor			0.9999260402

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	18	39.2454684
Longitude	93	6	5.4521496
Ellipsoid Height:			
Grid Northing (Meters)			109,012.9620
Grid Easting (Meters)			299,833.9540

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	18	39.2324400
Longitude	93	6	5.4579960
Ellipsoid Height (M):	106.134		
Geoid Height (M):	-29.034		

Location Description

FROM THE JCT. OF HWY.124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 1.56 KM (0.97 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.40 METERS EAST OF THE CENTERLINE OF HWY. 124, 30.0 METERS NORTH OF THE NORTHERN MOST DRIVEWAY TO A CHURCH, 28.8 METERS SOUTH OF A GRAVEL DRIVEWAY AND 0.70 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580005" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	130	3.40	11.2
MK # 2	NORTHERN MOST TELEPHONE BOX	177	15.85	52.0
MK # 3	14" CATALPA TREE	40	20.40	66.9

AZ Mark Station	580005A
Geodetic Azimuth	182 04 42.80462
Grid Azimuth	182 43 10.29901

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580005A	11/29/1994	AHTD	POPE	124	8900,080427

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,568.9177	
Easting (M)	299,812.7255	
Elevation (M)*	148.710	
Northing (SFT)	356,196.5242	
Easting (SFT)	983,635.5836	
Elevation (SFT)*	487.893	

Convergence Angle	0	38	27.8676924
Scale Factor	0.999947584		
Elevation Adjust. Factor	0.9999766631		
Combined Adjust. Factor	0.9999242483		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	18	24.8423112
Longitude	93	6	6.0898284
Ellipsoid Height:			
Grid Northing (Meters)	108,569.3111		
Grid Easting (Meters)	299,812.8810		

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	18	24.8294880
Longitude	93	6	6.0958080
Ellipsoid Height (M):	119.665		
Geoid Height (M):	-29.040		

Location Description

FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 1.158 KM (0.72 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 8.20 METERS EAST OF THE CENTERLINE OF HWY. 124, 23.0 METERS SOUTH OF A PAVED STREET AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580005A" SET ON TOP OF A 3/4" REBAR ROD 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	20" CONCRETE PIPE	356	12.70	41.7
MK # 2	F.A.S. MARKER #1171	62	30.00	98.4
MK # 3	NONE			

AZ Mark Station	580005
Geodetic Azimuth	2 04 42.436036
Grid Azimuth	2 43 10.299009

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

Digital levels were ran by CLS from TBM 904 of Job 080389 and NGS BM X 65 during Job 080427 in March 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580006	11/29/1994	AHTD	POPE	124	8900,080427

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	111,346.0385	
Easting (M)	303,364.7914	
Elevation (M)*	131.892	
Northing (SFT)	365,307.7946	
Easting (SFT)	995,289.3198	
Elevation (SFT)*	432.717	

Convergence Angle	0	37	6.7410081
Scale Factor	0.999945551		
Elevation Adjust. Factor	0.9999793022		
Combined Adjust. Factor	0.9999248543		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	19	56.2081080
Longitude	93	3	46.6787160
Ellipsoid Height (M):	102.975		
Geoid Height (M):	-28.919		

Location Description

FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 6.63 KM (4.12 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 10.85 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 21.7 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.20 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580006" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	F.A.S. MARKER #243	50	1.15	3.8
MK # 2	18" METAL PIPE	260	19.00	62.3
MK # 3	WOODEN FENCE CORNER POST	245	17.80	58.4

AZ Mark Station	580006A
Geodetic Azimuth	69 18 12.98597
Grid Azimuth	69 55 19.693979

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580006A	11/29/1994	AHTD	POPE	124	8900,080427

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	111,501.8215	
Easting (M)	303,790.9843	
Elevation (M)*	138.217	
Northing (SFT)	365,818.8927	
Easting (SFT)	996,687.5877	
Elevation (SFT)*	453.467	

Convergence Angle	0	36	56.9596911
Scale Factor	0.999945441		
Elevation Adjust. Factor	0.9999783097		
Combined Adjust. Factor	0.9999237519		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	20	1.4119080
Longitude	93	3	29.8694160
Ellipsoid Height (M):	109.309		
Geoid Height (M):	-28.907		

Location Description

FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 7.08 KM (4.40 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.45 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 23.0 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 0.60 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580006A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	55	28.25	92.7
MK # 2	WOODEN FENCE CORNER POST	59	16.90	55.4
MK # 3	NONE			

AZ Mark Station	580006
Geodetic Azimuth	249 18 22.70739
Grid Azimuth	249 55 19.69398

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580007	11/29/1994	AHTD	POPE	124	8900

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	112,939.6141
Easting (M)	305,753.2330
Elevation (M)*	198.686
Northing (SFT)	370,536.0506
Easting (SFT)	1,003,125.3986
Elevation (SFT)*	651.856
Convergence Angle	0 36 12.0955379
Scale Factor	0.999944470
Elevation Adjust. Factor	0.9999688207
Combined Adjust. Factor	0.9999132924

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	35 20 48.7427460
Longitude	93 2 12.7698792
Ellipsoid Height (M):	169.132
Geoid Height (M):	-29.554

Location Description

FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 326 FOR 9.575 KM (5.95 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.2 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 20.4 METERS WEST OF THE CENTER OF A GRAVEL ROAD AND 2.24 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580007" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RAILROAD CROSS TIE CORNER POST	55	16.00	52.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580007A
Geodetic Azimuth	229 28 57.32720
Grid Azimuth	230 05 09.45450

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580007A	11/29/1994	AHTD	POPE	124	8900

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	112,540.4061
Easting (M)	305,276.0230
Elevation (M)*	165.324
Northing (SFT)	369,226.3157
Easting (SFT)	1,001,559.7521
Elevation (SFT)*	542.400

Convergence Angle	0	36	22.9955585
Scale Factor	0.999944734		
Elevation Adjust. Factor	0.9999740559		
Combined Adjust. Factor	0.9999187914		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	20	35.6257896
Longitude	93	2	31.5016836
Ellipsoid Height (M):	135.760		
Geoid Height (M):	-29.564		

Location Description

FROM THE JCT. OF HWY. 124 AND HWY. 326 JUST NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 8.96 KM (5.57 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.70 METERS NORTH OF THE CENTERLINE OF HWY. 124 AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580007A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580007
Geodetic Azimuth	49 28 46.49088
Grid Azimuth	50 05 09.45450

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580008	11/29/1994	AHTD	POPE	124	8900

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	113,310.7351	
Easting (M)	307,570.5800	
Elevation (M)*	233.998	
Northing (SFT)	371,753.6367	
Easting (SFT)	1,009,087.8112	
Elevation (SFT)*	767.708	

Convergence Angle	0	35	30.3026711
Scale Factor	0.999944219		
Elevation Adjust. Factor	0.9999632794		
Combined Adjust. Factor	0.9999075005		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	21	1.3998996
Longitude	93	1	0.9483816
Ellipsoid Height (M):	204.474		
Geoid Height (M):	-29.524		

Location Description

FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 11.506 KM (7.15 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.15 METERS SOUTH OF THE CENTERLINE OF HWY. 124, 15.9 METERS WEST OF THE CENTERLINE OF A PAVED COUNTY ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "580008" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" METAL PIPE	53	9.10	29.9
MK # 2	TELEPHONE POLE	95	26.30	86.3
MK # 3	NONE			

AZ Mark Station	580008A
Geodetic Azimuth	180 36 02.95858
Grid Azimuth	181 11 33.26149

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580008A	11/29/1994	AHTD	POPE	N/A	8900

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	112,954.2981	
Easting (M)	307,563.1600	
Elevation (M)*	251.057	
Northing (SFT)	370,584.2263	
Easting (SFT)	1,009,063.4674	
Elevation (SFT)*	823.676	

Convergence Angle	0	35	30.3888275
Scale Factor	0.999944448		
Elevation Adjust. Factor	0.9999606025		
Combined Adjust. Factor	0.9999050527		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	20	49.8317424
Longitude	93	1	1.0964424
Ellipsoid Height (M):	221.530		
Geoid Height (M):	-29.527		

Location Description

FROM THE JCT. OF HWY. 124 AND HWY. 326 NORTHEAST OF RUSSELLVILLE, GO EAST ON HWY. 124 FOR 11.51 KM (7.15 MILES) TO A PAVED ROAD RIGHT, GO RIGHT (SOUTH) ON A PAVED ROAD FOR 0.35 KM (0.22 MILES) TO THE TOP OF THE HILL AND THE STATION ON THE RIGHT. THE STATION IS 8.60 METERS WEST OF THE CENTER OF THE PAVED ROAD, 5.0 METERS NORTH OF A FIELD ENTRANCE AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD2 1/2" CAP STAMPED "580008A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	106	20.45	67.1
MK # 2	POWER POLE	133	26.55	87.1
MK # 3	NONE			

AZ Mark Station	580008
Geodetic Azimuth	0 36 02.87292
Grid Azimuth	1 11 33.26149

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	FURGERSON
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580009A	5/11/1998	AHTD	POPE	I-40	080133

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,621.2951	
Easting (M)	296,009.3940	
Elevation (M)*	109.830	
Northing (SFT)	356,368.3657	
Easting (SFT)	971,157.4868	
Elevation (SFT)*	360.334	

Convergence Angle	0	39	55.4857545
Scale Factor	0.999947578		
Elevation Adjust. Factor	0.9999827644		
Combined Adjust. Factor	0.9999303433		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	25.1219340
Longitude	93	8	36.6684036
Ellipsoid Height (M):	80.802		
Geoid Height (M):	-29.028		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO WEST ON I-40 WEST BOUND LANE FOR 0.44 KM (0.27 MI) TO THE STATION ON THE LEFT SET ON THE SOUTH SIDE OF I-40 EAST BOUND LANE. THE STATION IS 29.73 METERS SOUTH OF THE SOUTH EDGE OF CONCRETE OF THE EAST BOUND LANE, 2.03 METERS NORTH OF A CHAIN LINK FENCE AND 2.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580009
Geodetic Azimuth	91 24 20.05521
Grid Azimuth	92 04 15.50663

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580010	5/11/1998	AHTD	POPE	7	080133

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	114,593.0461	
Easting (M)	298,078.3980	
Elevation (M)*	128.363	
Northing (SFT)	375,960.6854	
Easting (SFT)	977,945.5441	
Elevation (SFT)*	421.138	

Convergence Angle	0	39	9.3959729
Scale Factor	0.999943483		
Elevation Adjust. Factor	0.9999798561		
Combined Adjust. Factor	0.9999233402		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	21	39.6633456
Longitude	93	7	17.4626112
Ellipsoid Height (M):	99.424		
Geoid Height (M):	-28.914		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 6.20 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.644 METERS WEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	199	26.50	87.0
MK # 2	0.60 METER CATALPA TREE	237	31.64	103.8
MK # 3	TELEPHONE JUNCTION BOX	11	33.49	109.9

AZ Mark Station	580010A
Geodetic Azimuth	31 48 29.43836
Grid Azimuth	32 27 38.82162

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580010A	5/11/1998	AHTD	POPE	7	080133

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	114,918.6270	
Easting (M)	298,285.5020	
Elevation (M)*	129.218	
Northing (SFT)	377,028.8621	
Easting (SFT)	978,625.0178	
Elevation (SFT)*	423.943	

Convergence Angle	0	39	4.7077364
Scale Factor	0.999943285		
Elevation Adjust. Factor	0.9999797219		
Combined Adjust. Factor	0.9999230080		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	21	50.3041320
Longitude	93	7	9.4058256
Ellipsoid Height (M):	100.287		
Geoid Height (M):	-28.906		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 6.49 KM (4.03 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.80 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7, 6.15 METERS SOUTH-SOUTHWEST OF A PAVED ENTRANCE TO A QUONSET HUT AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580010A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	209	23.55	77.3
MK # 2	1.45 METER CMP	344	3.90	12.8
MK # 3	NORTHWEST CORNER OF QUONSET HUT	167	14.78	48.5

AZ Mark Station	580010
Geodetic Azimuth	211 48 34.10122
Grid Azimuth	212 27 38.82162

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580011	5/11/1998	AHTD	POPE	27	080133

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	119,188.7900	
Easting (M)	298,068.9190	
Elevation (M)*	129.626	
Northing (SFT)	391,038.5552	
Easting (SFT)	977,914.4451	
Elevation (SFT)*	425.281	

Convergence Angle	0	39	10.8217713	
Scale Factor	0.999940943			
Elevation Adjust. Factor	0.9999796579			
Combined Adjust. Factor	0.9999206021			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	24	8.7803604	
Longitude	93	7	19.9128612	
Ellipsoid Height (M):	100.799			
Geoid Height (M):	-28.853			

Location Description

TO REACH THE STATION FROM THE "T" JUNCTION OF STATE HIGHWAY 7, STATE HIGHWAY 27 AND STATE HIGHWAY 164, LOCATED IN DOVER, GO WEST ON STATE HIGHWAY 7 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF JOSAPHENE STREET ON THE LEFT, TURN LEFT AND GO SOUTH ON JOSAPHENE STREET FOR ABOUT 55 METERS TO THE JUNCTION OF COLONY STREET ON THE RIGHT, TURN RIGHT AND GO WEST ON COLONY STREET FOR ABOUT 37 METERS TO THE STATION ON THE . LEFT. THE STATION IS 36.75 METERS WEST OF THE CENTER OF JOSAPHENE STREET, 6.50 METERS SOUTH OF THE CENTER OF COLONY STREET AND 1.08 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580011 1998" SET ON TOP OF AN IRON ROD 0.38 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	0	1.50	4.9
MK # 2	WATER VALVE	86	29.90	98.1
MK # 3	WPA CONCRETE MARKER	69	33.50	109.9

AZ Mark Station	580011A
Geodetic Azimuth	316 41 44.07130
Grid Azimuth	317 20 54.90766

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580011A	5/11/1998	AHTD	POPE	7	080133

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	119,495.9520	
Easting (M)	297,785.9600	
Elevation (M)*	123.953	
Northing (SFT)	392,046.3025	
Easting (SFT)	976,986.1038	
Elevation (SFT)*	406.669	

Convergence Angle	0	39	17.4280069	
Scale Factor	0.999940793			
Elevation Adjust. Factor	0.9999805481			
Combined Adjust. Factor	0.9999213423			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	24	18.6421896	
Longitude	93	7	31.2657492	
Ellipsoid Height (M):	95.096			
Geoid Height (M):	-28.853			

Location Description

TO REACH THE STATION FROM THE "T" JUNCTION OF STATE HIGHWAY 7, STATE HIGHWAY 27 AND STATE HIGHWAY 164, LOCATED IN DOVER, GO WEST ON STATE HIGHWAY 7 FOR 1.05 KM (0.65 MI) TO THE STATION ON THE LEFT SET ABOUT 50 METERS NORTHWEST OF THE NORTHWEST END OF A BRIDGE. THE STATION IS 8.903 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 7 AND 0.66 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH IN TOP OF A METAL GUARD RAIL POST	328	4.97	16.3
MK # 2	PUNCH IN TOP OF A METAL GUARD RAIL POST	3	1.37	4.5
MK # 3	PUNCH IN TOP OF A METAL GUARD RAIL POST	118	2.90	9.5

AZ Mark Station	580011
Geodetic Azimuth	136 41 37.49417
Grid Azimuth	137 20 54.90766

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580012	3/23/2000	AHTD	POPE	7	080267, 080XX6,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	99,731.9868	0.0055
Easting (M)	295,637.8188	0.0055
Elevation (M)*	98.454	
Northing (SFT)	327,204.0267	
Easting (SFT)	969,938.4105	
Elevation (SFT)*	323.011	

Convergence Angle	0	40	1.6602840
Scale Factor	0.999955277		
Elevation Adjust. Factor	0.9999845496		
Combined Adjust. Factor	0.9999398273		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	13	36.5435364
Longitude	93	8	47.2794252
Ellipsoid Height:	69.336		
Grid Northing (Meters)	99,731.9856		
Grid Easting (Meters)	295,637.8182		

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID09			
Latitude	35	13	36.5435760	
Longitude	93	8	47.2794000	
Ellipsoid Height (M):	69.198			0.0115
Geoid Height (M):	-29.213			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO SOUTH ON STATE HIGHWAY 7 FOR 0.41 KM (0.26 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.00 METERS SOUTHEAST OF THE CENTER OF A PAVED ROAD LEADING TO THE PORT OF DARDANELLE AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580012 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.200 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580012A
Geodetic Azimuth	47 35 50.832688
Grid Azimuth	48 15 52.456033

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	RUSSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580012A	3/23/2000	AHTD	POPE	7	080267, 080XX6,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	100,064.2677	0.0066
Easting (M)	296,010.3211	0.0066
Elevation (M)*	103.537	
Northing (SFT)	328,294.1849	
Easting (SFT)	971,160.5285	
Elevation (SFT)*	339.688	

Convergence Angle	0	39	53.1774726
Scale Factor	0.999954950		
Elevation Adjust. Factor	0.9999837519		
Combined Adjust. Factor	0.9999387027		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	13	47.4663108
Longitude	93	8	32.7018516
Ellipsoid Height:	74.425		
Grid Northing (Meters)	100,064.2814		
Grid Easting (Meters)	296,010.3148		

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID09			
Latitude	35	13	47.4658680	
Longitude	93	8	32.7015960	
Ellipsoid Height (M):	74.288			0.0138
Geoid Height (M):	-29.204			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.09 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.51 METERS NORTH-NORTHEAST OF THE CENTER OF A ENTRANCE TO A FIELD, 13.25 METERS EAST-SOUTHEAST OF THE CENTER OF STATE HIGHWAY 7 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580012A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.200 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF CMP	219	27.21	89.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580012
Geodetic Azimuth	227 35 59.24157
Grid Azimuth	228 15 52.45603

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	RUSSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580013	3/23/2000	AHTD	POPE	247	080267, 080XX6

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	99,304.0937
Easting (M)	300,151.7401
Elevation (M)*	119.058
Northing (SFT)	325,800.1807
Easting (SFT)	984,747.8340
Elevation (SFT)*	390.609

Convergence Angle	0	38	17.6816655
Scale Factor			0.999955645
Elevation Adjust. Factor			0.9999813163
Combined Adjust. Factor			0.9999369621

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	13	24.3278868	
Longitude	93	5	48.5910096	
Ellipsoid Height (M):	90.012			
Geoid Height (M):	-29.019			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO EAST ON STATE HIGWAY 247 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24.00 METERS EAST OF A PAVED ENTRANCE, 11.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 247, 0.95 METERS NORTH OF A PIPE FENCE AND 0.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 650.844 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	100	19.00	62.3
MK # 2	EAST END OF CMP	292	17.50	57.4
MK # 3	NONE			

AZ Mark Station	580013A
Geodetic Azimuth	89 12 53.422338
Grid Azimuth	89 51 11.037965

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	RUSSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580013A	3/23/2000	AHTD	POPE	247	080267, 080XX6

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	99,305.7627	
Easting (M)	300,802.5444	
Elevation (M)*	115.588	
Northing (SFT)	325,805.6565	
Easting (SFT)	986,883.0144	
Elevation (SFT)*	379.225	

Convergence Angle	0	38	2.7071829
Scale Factor	0.999955637		
Elevation Adjust. Factor	0.9999818608		
Combined Adjust. Factor	0.9999374986		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	24.6165240
Longitude	93	5	22.8571980
Ellipsoid Height (M):	86.514		
Geoid Height (M):	-29.005		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 247, LOCATED ON THE SOUTH SIDE OF RUSSELLVILLE, GO EAST ON STATE HIGHWAY 247 FOR 5.16 KM (3.21 MI) TO THE STATION ON THE LEFT. THE STAION IS 11.60 METERS NORTH OF THE CENTER OF STATE HIGHWAY 247, 1.18 METERS SOUTH OF A FENCE LINE AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 650.844 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580013
Geodetic Azimuth	269 13 08.26475
Grid Azimuth	269 51 11.03797

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	RUSSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580014	3/23/2000	AHTD	POPE	331	080267, 080XX6

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,642.6308	
Easting (M)	301,042.0715	
Elevation (M)*	131.707	
Northing (SFT)	336,753.3645	
Easting (SFT)	987,668.8629	
Elevation (SFT)*	432.109	

Convergence Angle	0	37	58.0437158
Scale Factor	0.999952488		
Elevation Adjust. Factor	0.9999793313		
Combined Adjust. Factor	0.9999318203		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	15	12.9772620
Longitude	93	5	14.8429788
Ellipsoid Height (M):	102.711		
Geoid Height (M):	-28.977		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, LOCATED IN POTTSVILLE, GO WEST ON STATE HIGHWAY 331 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.45 METERS WEST OF A PAVED ENTRANCE TO A PASTURE, 11.10 METERS NORTH OF THE CENTER OF STATE HIGHWAY 331 AND 0.84 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580014 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.751 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF CMP	112	12.90	42.3
MK # 2	GATE POST	87	14.10	46.3
MK # 3	WEST IN-LINE BRACE POST	318	1.43	4.7

AZ Mark Station	580014A
Geodetic Azimuth	274 54 33.47016
Grid Azimuth	275 32 31.56554

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	RUSSPORT

Comments

DESTROYED IN APRIL OF 2013 BY PROPERTY OWNER CONSTRUCTING NEW DRIVEWAY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580014A	3/23/2000	AHTD	POPE	331	080267, 080XX6

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,696.4938	
Easting (M)	300,486.9590	
Elevation (M)*	124.327	
Northing (SFT)	336,930.0801	
Easting (SFT)	985,847.6313	
Elevation (SFT)*	407.896	

Convergence Angle	0	38	10.8353092
Scale Factor	0.999952445		
Elevation Adjust. Factor	0.9999804894		
Combined Adjust. Factor	0.9999329353		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	15	14.5255068
Longitude	93	5	36.8254716
Ellipsoid Height (M):	95.316		
Geoid Height (M):	-28.989		

Location Description

TO REACH THE STATION FROM THENJUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, LOCATED IN POTTSVILLE, GO WEST ON STATE HIGHWAY 331 FOR 4.34 KM (2.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 331, 1.15 METERS NORTH OF A FENCE LINE AND 0.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDAR 64mm CAP STAMPED "580014A 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 557.751 METERS. THE SHOT DISTANCE IS 557.751 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	99	22.70	74.5
MK # 2	CORNER FENCE POST	247	2.10	6.9
MK # 3	NONE			

AZ Mark Station	580014
Geodetic Azimuth	94 54 20.781871
Grid Azimuth	95 32 31.565537

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	RUSSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580015	3/23/2000	AHTD	POPE	363	080XX6, 080500

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	102,125.3294	0.0020
Easting (M)	305,797.6291	0.0020
Elevation (M)*	118.487	

Northing (SFT)	335,056.1849	
Easting (SFT)	1,003,271.0548	
Elevation (SFT)*	388.737	

Convergence Angle	0	36	8.4523149
Scale Factor	0.999952911		
Elevation Adjust. Factor	0.9999814058		
Combined Adjust. Factor	0.9999343177		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	14	57.8548716
Longitude	93	2	6.5097996
Ellipsoid Height:	89.671		
Grid Northing (Meters)	102,125.3223		
Grid Easting (Meters)	305,797.6078		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	35	14	57.8551092	
Longitude	93	2	6.5089608	
Ellipsoid Height (M):	89.496			0.0030
Geoid Height (M):	-28.982			0.0030

Location Description

THE STATION IS LOCATED ON THE NORTH SIDE OF POTTSVILLE, AT THE JUNCTION OF I-40 AND STATE HIGHWAY 363. THE STATION IS 19.60 METERS SOUTH OF THE EAST BOUND LANE OF I-40, 7.25 METERS EAST OF THE CENTER OF STATE HIGHWAY 363 AND 1.52 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580015 2000" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 490.339 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK P 293.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER OF BRIDGE	3	2.46	8.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580015A
Geodetic Azimuth	98 01 14.700879
Grid Azimuth	98 37 23.107920

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

SOURCE OF PREVIOUS ELEV. (388.9001') WAS UNDOCUMENTED. UPDATED ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM P 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580015A	3/23/2000	AHTD	POPE	I-40	080XX6

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,051.8081	
Easting (M)	306,282.3773	
Elevation (M)*	121.024	
Northing (SFT)	334,814.9737	
Easting (SFT)	1,004,861.4329	
Elevation (SFT)*	397.060	

Convergence Angle	0	35	57.2769720
Scale Factor	0.999952973		
Elevation Adjust. Factor	0.9999810077		
Combined Adjust. Factor	0.9999339816		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	14	55.6344132
Longitude	93	1	47.3040120
Ellipsoid Height (M):	92.111		
Geoid Height (M):	-28.861		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND STATE HIGHWAY 363, LOCATED ON THE NORTH SIDE OF POTTSVILLE, GO EAST ON I-40 FOR 0.49 KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.00 METERS NORTH OF THE CENTER OF I-40 WEST BOUND LANE, 9.55 METERS SOUTH OF A FENCE AND 9.35 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "580015A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 490.339 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	580015
Geodetic Azimuth	278 01 25.78516
Grid Azimuth	278 37 23.10792

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	RUSSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580016	3/26/2002	AHTD	POPE	326	080197

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	107,097.6957	0.0010
Easting (M)	299,367.2543	0.0010
Elevation (M)*	125.493	0.0119
Northing (SFT)	351,369.6900	
Easting (SFT)	982,174.0668	
Elevation (SFT)*	411.723	

Convergence Angle	0	38	37.7476972
Scale Factor			0.999948728
Elevation Adjust. Factor			0.9999803064
Combined Adjust. Factor			0.9999290354

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	17	36.5498808
Longitude	93	6	23.5264860
Ellipsoid Height:			
Grid Northing (Meters)			107,086.1281
Grid Easting (Meters)			299,355.7090

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	35	17	36.9294360	
Longitude	93	6	23.0747040	
Ellipsoid Height (M):			95.307	0.0040
Geoid Height (M):			-29.096	0.0040

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 326, LOCATED ON THE NORTHEAST SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 326 FOR 0.19 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.45 METERS EAST OF THE CENTER OF STATE HIGHWAY 326 AND 1.110 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580016 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	171	21.50	70.5
MK # 2				
MK # 3				

AZ Mark Station	580016A
Geodetic Azimuth	359 09 10
Grid Azimuth	359 47 48

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

Elevation was determined by 3wire in Job # 080197 from NGS K-25/U-65Reset. Updated 5/4/2023 SS didn't save before update.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580016A	3/26/2002	AHTD	POPE	326	080197,080427,080686

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	107,597.1664	0.0010
Easting (M)	299,353.8933	0.0010
Elevation (M)*	124.978	0.0124
Northing (SFT)	353,008.3701	
Easting (SFT)	982,130.2316	
Elevation (SFT)*	410.032	

Convergence Angle	0	38	38.1846801
Scale Factor	0.999948335		
Elevation Adjust. Factor	0.9999803872		
Combined Adjust. Factor	0.9999287233		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	17	53.1313440
Longitude	93	6	23.8254840
Ellipsoid Height:			
Grid Northing (Meters)	107,597.1675		
Grid Easting (Meters)	299,353.8979		

Vertical Determined By:	None			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	17	53.1313080	
Longitude	93	6	23.8256640	
Ellipsoid Height (M):	95.881			0.0040
Geoid Height (M):	-29.091			0.0040

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 326, LOCATED ON THE NORTHEAST SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 326 FOR 0.50 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 326 AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580016A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	354	19.00	62.3
MK # 2	OPTIC CABLE MARKER	186	4.05	13.3
MK # 3				

AZ Mark Station	580016
Geodetic Azimuth	179 09 10
Grid Azimuth	179 47 48

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

Elevation was determined by 3wire in Job # 080197 from NGS K-25/U-65Reset

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580017	3/26/2002	AHTD	POPE	N/A	080197

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,534.4851	
Easting (M)	297,239.7190	
Elevation (M)*		
Northing (SFT)	356,083.5565	
Easting (SFT)	975,193.9781	
Elevation (SFT)*		

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	18	22.7660544
Longitude	93	7	47.9284860
Ellipsoid Height (M):	91.465		
Geoid Height (M):	-29.004		

Convergence Angle	0	39	27.1240389
Scale Factor	0.999947633		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.05 MILES TO EAST ASPEN LANE, TURN RIGHT (EAST) ON ASPEN LANE AND GO EAST ON ASPEN LANE FOR 0.50 MILES TO THE STATION ON THE RIGHT. THIS STATION IS LOCATED INSIDE THE FENCE OF THE DISTRICT 8 A.H.T.D. AREA HEAD QUARTERS. TO DRIVE IN TO THE STATION GO THROUGH GATE, DRIVE PAST SERVICE STATION AND FOLLOW SERVICE ROAD AROUND EQUIPMENT LOT TO THE STATION. THE STATION IS 5.25 METERS SOUTH OF A CHAIN LINK FENCE LINE, 4.20 METERS NORTH OF THE CENTER LINE OF THE SERVICE ROAD, AND 5.05 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER CONCRETE HEAD W ALL	89	11.20	36.7
MK # 2	POWER POLE	81	12.65	41.5
MK # 3	POWER POLE	281	28.60	93.8

AZ Mark Station	580017A
Geodetic Azimuth	279 42 05
Grid Azimuth	280 21 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580017A	3/26/2002	AHTD	POPE	N/A	080197

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	108,629.2781
Easting (M)	296,721.1340
Elevation (M)*	
Northing (SFT)	356,394.5566
Easting (SFT)	973,492.5871
Elevation (SFT)*	
Convergence Angle	0 39 39.0939787
Scale Factor	0.999947565
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 18 25.6482684
Longitude	93 8 8.4989580
Ellipsoid Height (M):	92.730
Geoid Height (M):	-29.014

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF RUSSELLVILLE, GO NORTH ON STATE HIGHWAY 7 FOR 0.05 MILES TO EAST ASPEN LANE, TURN RIGHT (EAST) ON ASPEN LANE AND GO EAST ON ASPEN LANE FOR 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS EAST OF THE CENTER OF A PAVED DRIVE, 12.00 METERS NORTH OF THE CENTER OF EAST ASPEN LANE, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580017A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	580017
Geodetic Azimuth	99 41 53
Grid Azimuth	100 21 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	CLARPORT
Ref Mon # 3	W H PHILLIPS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580018	8/26/2002	AHTD	POPE	164	080252

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	129,206.1901
Easting (M)	293,335.9400
Elevation (M)*	
Northing (SFT)	423,903.9754
Easting (SFT)	962,386.3298
Elevation (SFT)*	
Convergence Angle	0 41 2.7259307
Scale Factor	0.999937218
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 29 32.0247096
Longitude	93 10 32.2213800
Ellipsoid Height (M):	127.089
Geoid Height (M):	-28.721

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, LOCATED ABOUT 5 MILES NORTH OF DOVER, GO WEST ON STATE HIGHWAY 164 FOR 2.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 11.90 METERS WEST OF THE CENTER OF STATE HIGHWAY 164 AND 0.47 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580018 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	333	12.00	39.4
MK # 2				
MK # 3				

AZ Mark Station	580018A
Geodetic Azimuth	347 47 06
Grid Azimuth	348 28 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580018A	8/26/2002	AHTD	POPE	164	080252

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	129,735.2170
Easting (M)	293,228.0100
Elevation (M)*	
Northing (SFT)	425,639.6244
Easting (SFT)	962,032.2295
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	29	49.1481420
Longitude	93	10	36.7543020
Ellipsoid Height (M):	113.236		
Geoid Height (M):	-28.710		

Convergence Angle	0	41	5.3636341
Scale Factor	0.999937089		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 164, LOCATED ABOUT 5 MILES NORTH OF DOVER, GO WEST ON STATE HIGHWAY 164 FOR 3.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 164, 0.75 METERS EAST OF A PIPE FENCE LINE AND 0.58 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580018A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	14	4.40	14.4
MK # 2				
MK # 3				

AZ Mark Station	5800018
Geodetic Azimuth	167 47 03
Grid Azimuth	168 28 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580019	8/26/2002	AHTD	POPE	27	080254

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	131,976.5330
Easting (M)	312,168.6190
Elevation (M)*	
Northing (SFT)	432,993.0087
Easting (SFT)	1,024,173.2108
Elevation (SFT)*	
Convergence Angle	0 33 48.5654420
Scale Factor	0.999936579
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 31 8.5677528
Longitude	92 58 6.1118436
Ellipsoid Height (M):	155.602
Geoid Height (M):	-28.416

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 27 LOCATED ON THE SOUTH SIDE OF HECTOR, GO NORTH ON STATE HIGHWAY 27 FOR 5.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.45 METERS WEST OF THE CENTER OF STATE HIGHWAY 27, 6.25 METERS SOUTHWEST OF A FIELD ENTRANCE, AND 1.85 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580019 2002" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST GATE POST	338	6.30	20.7
MK # 2	EAST GATE POST	7	10.00	32.8
MK # 3				

AZ Mark Station	580019A
Geodetic Azimuth	68 00 54
Grid Azimuth	68 34 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580019A	8/26/2002	AHTD	POPE	27	080254

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	132,099.3131
Easting (M)	312,481.5700
Elevation (M)*	
Northing (SFT)	433,395.8297
Easting (SFT)	1,025,199.9509
Elevation (SFT)*	
Convergence Angle	0 33 41.3657370
Scale Factor	0.999936557
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 31 12.6513516
Longitude	92 57 53.7390720
Ellipsoid Height (M):	154.263
Geoid Height (M):	-28.408

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 27 LOCATED ON THE SOUTH SIDE OF HECTOR, GO NORTH ON STATE HIGHWAY 27 FOR 5.35 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.25 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 27, 3.60 METERS SOUTHWEST OF A GRAVEL FIELD ENTRANCE, AND 1.60 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "580019A 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSS TIE CORNER POST	166	1.80	5.9
MK # 2				
MK # 3				

AZ Mark Station	580019
Geodetic Azimuth	248 01 01
Grid Azimuth	248 34 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	RUSSPORT
Ref Mon # 3	OZARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580020	10/26/2005	AHTD	POPE	164	008818

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	125,070.2641	
Easting (M)	305,403.7320	
Elevation (M)*	163.583	
Northing (SFT)	410,334.6915	
Easting (SFT)	1,001,978.7441	
Elevation (SFT)*	536.688	

Convergence Angle	0	36	23.1087551
Scale Factor	0.999938420		
Elevation Adjust. Factor	0.9999743292		
Combined Adjust. Factor	0.9999127508		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	27	22.2353208
Longitude	93	2	31.6962132
Ellipsoid Height (M):	134.916		
Geoid Height (M):	-28.653		

Location Description

To reach the station from the junction of highways 164 and 27 in Scottsville, go North on Hwy-164 for 0.60 miles to the station on the left. 43.20 meters Southwest of a gravel drive, 11.0 meters Northwest of the center of Hwy-164 and 1.40 meters Southeast of a witness post. The station mark is a standard 64mm cap stamped "580020 2005" set on top of an iron rod 1.22 meters long and is just below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"T" fence post	358	3.40	11.2
MK # 2	"T" fence post	232	3.50	11.5
MK # 3				

AZ Mark Station	580020A
Geodetic Azimuth	025 20 44
Grid Azimuth	025 57 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	Russport
Ref Mon # 2	Tri County
Ref Mon # 3	W. H. Phillips, D 126

Comments

3 wire level elevations were ran by S5111 in Jan 2006 in Job 008818 from NGS D 126.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580020A	10/26/2005	AHTD	POPE	164	008818

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	125,327.2361	
Easting (M)	305,528.7990	
Elevation (M)*	158.964	
Northing (SFT)	411,177.7738	
Easting (SFT)	1,002,389.0681	
Elevation (SFT)*	521.535	

Convergence Angle	0	36	20.2853361
Scale Factor	0.999938331		
Elevation Adjust. Factor	0.9999750540		
Combined Adjust. Factor	0.9999133865		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	27	30.6163512
Longitude	93	2	26.8441368
Ellipsoid Height (M):	130.309		
Geoid Height (M):	-28.647		

Location Description

To reach the station from the junction of highways 164 and 27 in Scottsville, go North on Hwy-164 for 0.80 miles to the station on the right 33.80 meters North of a gravel drive, 9.50 meters Southeast of the center of Hwy-164 and 0.50 meters Northwest of a witness post. The station mark is a standard 64mm cap stamped "580020A 2005" set on top of an iron rod 1.22 meters long and is just below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18 inch CMP	195	31.10	102.0
MK # 2	Corner fence post	279	21.50	70.5
MK # 3				

AZ Mark Station	580020
Geodetic Azimuth	205 20 47
Grid Azimuth	205 57 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	Russport
Ref Mon # 2	Tri County
Ref Mon # 3	W. H. Phillips, D 126

Comments

3 wire level elevations were ran by S5111 in Jan 2006 in Job 008818 from NGS D 126.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580021	3/1/2007	AHTD	POPE	NA	080295

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	106,506.3031	
Easting (M)	293,951.9280	
Elevation (M)*	112.949	
Northing (SFT)	349,429.4294	
Easting (SFT)	964,407.2838	
Elevation (SFT)*	370.568	

Convergence Angle	0	40	42.2994781
Scale Factor	0.999949252		
Elevation Adjust. Factor	0.9999822749		
Combined Adjust. Factor	0.9999315278		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	15.7124688
Longitude	93	9	57.1182984
Ellipsoid Height (M):	83.853		
Geoid Height (M):	-29.086		

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 326, ON THE WEST EDGE OF RUSSELLVILLE, GO EAST ON STATE HIGHWAY 64 1.0 MILES TO SKYLINE DRIVE ON THE RIGHT, TURN RIGHT ONTO SKYLINE DRIVE AND GO 0.05 MILES TO THE STATION MARK ON THE LEFT, 16.4 FEET SOUTHWEST OF AN ASPHALT DRIVE, 1.2 FEET NORTHWEST OF A CONCRETE SIDEWALK, SOUTHWEST 109.0 FEET OF THE CENTERLINE OF MAIN PLACE STREET AND SOUTHEAST 25.0 FEET OF THE CENTERLINE OF SKYLINE DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580021 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH CORNER BRICK BLDGING	224	16.95	55.6
MK # 2	CENTER MANHOLE COVER	53	23.01	75.5
MK # 3	COMBINATION POLE	293	18.29	60.0

AZ Mark Station	Q 292
Geodetic Azimuth	108 09 43
Grid Azimuth	108 50 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARFY
Ref Mon # 3	DQUA

Comments

3-wire levels ran by crew S5101 in Sept. 07 from NGS 1st Order Mark Q 292.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580022	7/13/2010	AHTD	POPE	7	080392,080422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	140,904.5650	
Easting (M)	303,951.5950	
Elevation (M)*	546.916	
Northing (SFT)	462,284.3937	
Easting (SFT)	997,214.5246	
Elevation (SFT)*	1,794.341	

Convergence Angle	0	37	0.5527197
Scale Factor	0.999935967		
Elevation Adjust. Factor	0.9999141784		
Combined Adjust. Factor	0.9998501509		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	35	55.5106884
Longitude	93	3	36.0440748
Ellipsoid Height (M):	518.635		
Geoid Height (M):	-28.281		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 10.75 MILES TO THE MARK ON THE RIGHT, SOUTH WEST 28.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH EAST 11.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580022 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	580022A
Geodetic Azimuth	132 36 46
Grid Azimuth	133 13 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 510011
Ref Mon # 2	ARRS
Ref Mon # 3	P777

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580022A	7/13/2010	AHTD	POPE	7	080392,080422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	140,680.0360
Easting (M)	304,190.4460
Elevation (M)*	524.982
Northing (SFT)	461,547.7514
Easting (SFT)	997,998.1549
Elevation (SFT)*	1,722.378

Convergence Angle	0	36	54.9753841
Scale Factor			0.999935959
Elevation Adjust. Factor			0.9999176200
Combined Adjust. Factor			0.9998535843

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	35	48.3087732	
Longitude	93	3	26.4593628	
Ellipsoid Height (M):	496.697			
Geoid Height (M):	-28.285			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 10.95 MILES TO THE MARK ON THE LEFT. IT IS NORTH EAST 18.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH WEST 43.0 FEET OF A WITNESS POST.IT IS 34.3 FEET SOUTH WEST OF CENTERLINE OF A POWER LINE AND 165.6 FEET SOUTH EAST OF A DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580022A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BOX CU 48" NORTH EAST END	127	24.23	79.5
MK # 2				
MK # 3				

AZ Mark Station	580022
Geodetic Azimuth	312 36 52
Grid Azimuth	313 13 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 510011
Ref Mon # 2	ARRS
Ref Mon # 3	P777

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580023	7/13/2010	AHTD	POPE	7	080392

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	143,971.0240	
Easting (M)	303,699.4470	
Elevation (M)*	553.420	
Northing (SFT)	472,344.9346	
Easting (SFT)	996,387.2690	
Elevation (SFT)*	1,815.678	

Convergence Angle	0	37	7.1471488	
Scale Factor	0.999936205			
Elevation Adjust. Factor	0.9999131579			
Combined Adjust. Factor	0.9998493685			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	37	34.9189536
Longitude	93	3	47.3766732
Ellipsoid Height (M):	525.210		
Geoid Height (M):	-28.210		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 8.62 MILES TO THE MARK ON THE LEFT,IT IS NORTH EAST 28.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH WEST 13.7 FEET OF A WITNESS POST.IT IS 34 FEET NORTH WEST OF A PULL OFF. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580023 2010" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	580023A
Geodetic Azimuth	310 34 36
Grid Azimuth	311 11 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 510011
Ref Mon # 2	ARRS
Ref Mon # 3	P777

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580023A	7/13/2010	AHTD	POPE	7	080392

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	144,400.5140	
Easting (M)	303,208.7640	
Elevation (M)*	561.706	
Northing (SFT)	473,754.0197	
Easting (SFT)	994,777.4199	
Elevation (SFT)*	1,842.862	

Convergence Angle	0	37	18.6021043
Scale Factor			0.999936256
Elevation Adjust. Factor			0.9999118579
Combined Adjust. Factor			0.9998481195

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	37	48.6820848
Longitude	93	4	7.0621392
Ellipsoid Height (M):	533.500		
Geoid Height (M):	-28.205		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 8.22 MILES TO THE MARK ON THE RIGHT. IT IS SOUTH WEST 19.1 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH EAST 14.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580023A 2010" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	14" CEDAR TREE	41	18.59	61.0
MK # 2				
MK # 3				

AZ Mark Station	580023
Geodetic Azimuth	130 34 25
Grid Azimuth	131 11 43

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 510011
Ref Mon # 2	ARRS
Ref Mon # 3	P777

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580024	7/14/2010	AHTD	POPE	7	080392

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,385.0200	
Easting (M)	300,801.9570	
Elevation (M)*	587.534	
Northing (SFT)	490,107.3531	
Easting (SFT)	986,881.0873	
Elevation (SFT)*	1,927.600	

Convergence Angle	0	38	15.5454954
Scale Factor	0.999937182		
Elevation Adjust. Factor	0.9999078053		
Combined Adjust. Factor	0.9998449931		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	40	29.5529664
Longitude	93	5	44.9199780
Ellipsoid Height (M):	559.409		
Geoid Height (M):	-28.124		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 3.55 MILES TO THE MARK ON THE LEFT. IT IS EAST 34.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 13.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580024 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	580024A
Geodetic Azimuth	16 13 02
Grid Azimuth	16 51 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 510011
Ref Mon # 2	ARRS
Ref Mon # 3	P777

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580024A	7/14/2010	AHTD	POPE	7	080392

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,727.1680	
Easting (M)	300,905.6160	
Elevation (M)*	587.091	
Northing (SFT)	491,229.8837	
Easting (SFT)	987,221.1752	
Elevation (SFT)*	1,926.148	

Convergence Angle	0	38	13.2349406
Scale Factor			0.999937268
Elevation Adjust. Factor			0.9999078748
Combined Adjust. Factor			0.9998451485

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	40	40.6917804
Longitude	93	5	40.9492644
Ellipsoid Height (M):	558.974		
Geoid Height (M):	-28.117		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 3.22 MILES TO THE MARK ON THE LEFT. IT IS EAST 21.01 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 19.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580024A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	580024
Geodetic Azimuth	196 13 05
Grid Azimuth	196 51 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRS
Ref Mon # 3	P777

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580025	7/14/2010	AHTD	POPE	7	080392

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	153,060.9610	
Easting (M)	300,377.1020	
Elevation (M)*	556.413	
Northing (SFT)	502,167.5029	
Easting (SFT)	985,487.2088	
Elevation (SFT)*	1,825.497	

Convergence Angle	0	38	26.3273693
Scale Factor	0.999938258		
Elevation Adjust. Factor	0.9999126883		
Combined Adjust. Factor	0.9998509517		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	42	28.6690932
Longitude	93	6	3.4487460
Ellipsoid Height (M):	528.356		
Geoid Height (M):	-28.056		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 0.98 MILES TO THE MARK ON THE LEFT. IT IS SOUTH EAST 21.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH WEST 52.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580025 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TB	178	25.76	84.5
MK # 2	ROCK BOX CU HOWL	30	23.47	77.0
MK # 3				

AZ Mark Station	580025A
Geodetic Azimuth	5 29 27
Grid Azimuth	6 07 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 510011
Ref Mon # 2	ARRS
Ref Mon # 3	P777

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580025A	7/14/2010	AHTD	POPE	7	080392

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	153,431.3729	
Easting (M)	300,416.8930	
Elevation (M)*	569.456	
Northing (SFT)	503,382.7626	
Easting (SFT)	985,617.7565	
Elevation (SFT)*	1,868.289	

Convergence Angle	0	38	25.5021063
Scale Factor	0.999938385		
Elevation Adjust. Factor	0.9999106418		
Combined Adjust. Factor	0.9998490323		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	42	40.7018988
Longitude	93	6	2.0305224
Ellipsoid Height (M):	541.406		
Geoid Height (M):	-28.049		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7,123S AND STATE HIGHWAY 16E, AT SAND GAP, GO SOUTH ON HIGHWAY 7 FOR 0.75 MILES TO THE MARK ON THE RIGHT. IT IS NORTH WEST 31.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH EAST 18.0 FEET OF A WITNESS POST. IT IS 119.2 FEET SOUTH WEST OF CENTERLINE OF A DRIVE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580025A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	PP	18	27.89	91.5
MK # 2				
MK # 3				

AZ Mark Station	580025
Geodetic Azimuth	185 29 28
Grid Azimuth	186 07 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 510011
Ref Mon # 2	ARRS
Ref Mon # 3	P777

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580026	9/27/2011	AHTD	POPE	7	080422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	134,711.0109
Easting (M)	300,525.7437
Elevation (M)*	421.738
Northing (SFT)	441,964.3749
Easting (SFT)	985,974.8775
Elevation (SFT)*	1,383.653
Convergence Angle	0 38 18.1535568
Scale Factor	0.999936198
Elevation Adjust. Factor	0.9999338199
Combined Adjust. Factor	0.9998700221

Vertical Determined By:	3rd Order - digital
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	35 32 33.3316176
Longitude	93 5 49.4019600
Ellipsoid Height (M):	393.258
Geoid Height (M):	-28.480

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 6.95 MILES TO THE STATION MARK ON THE LEFT, WEST 21.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND 19 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580026 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	HIGH VOLTAGE POWER POLE	225	14.48	47.5
MK # 2				
MK # 3				

AZ Mark Station	580026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580026A	9/27/2011	AHTD	POPE	7	080422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	135,275.3622
Easting (M)	300,968.0040
Elevation (M)*	425.861
Northing (SFT)	443,815.9175
Easting (SFT)	987,425.8598
Elevation (SFT)*	1,397.179

Convergence Angle	0	38	8.0814827
Scale Factor			0.999936137
Elevation Adjust. Factor			0.9999331730
Combined Adjust. Factor			0.9998693143

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital			
Elevation Datum:				
Geoid Datum:	Geoid 96			
Latitude	35	32	51.8026308	
Longitude	93	5	32.0929908	
Ellipsoid Height (M):	397.400			
Geoid Height (M):	-28.461			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 7.4 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 56.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND 19 FEET SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580026A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	580026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580027	9/27/2011	AHTD	POPE	7	080422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	136,685.3043	
Easting (M)	302,966.7217	
Elevation (M)*	400.562	
Northing (SFT)	448,441.7025	
Easting (SFT)	993,983.3194	
Elevation (SFT)*	1,314.176	

Vertical Determined By:	3rd Order - digital			
Elevation Datum:				
Geoid Datum:	Geoid 96			
Latitude	35	33	38.2631724	
Longitude	93	4	13.3482108	
Ellipsoid Height (M):	372.155			
Geoid Height (M):	-28.407			

Convergence Angle	0	37	22.2599639
Scale Factor	0.999936020		
Elevation Adjust. Factor	0.9999371428		
Combined Adjust. Factor	0.9998731668		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 8.9 MILES TO THE STATION MARK ON THE RIGHT, 175.6 FEET SOUTHWEST OF THE CENTERLINE OF A GRAVEL DRIVEWAY, SOUTHEAST 56.3 FEET OF THE CENTERLINE OF THE HIGHWAY AND 26 FEET NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND UTIL MARKER (WATER)	160	10.18	33.4
MK # 2				
MK # 3				

AZ Mark Station	580027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580027A	9/27/2011	AHTD	POPE	7	080422

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	137,114.4235	
Easting (M)	303,270.9749	
Elevation (M)*	391.013	
Northing (SFT)	449,849.5711	
Easting (SFT)	994,981.5235	
Elevation (SFT)*	1,282.847	

Convergence Angle	0	37	15.3372445
Scale Factor	0.999935994		
Elevation Adjust. Factor	0.9999386411		
Combined Adjust. Factor	0.9998746391		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	33	52.2939348
Longitude	93	4	1.4514420
Ellipsoid Height (M):	362.620		
Geoid Height (M):	-28.392		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 7 AND STATE HIGHWAY 164, 5 MILES NORTH OF DOVER, GO NORTH ON HIGHWAY 7 FOR 9.2 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 20 FEET OF THE CENTERLINE OF THE HIGHWAY AND 22.5 FEET NORTHWEST OF A WITNESS POSWT. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580027A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	140	7.30	24.0
MK # 2	POWER POLE W/2 GUYS	52	28.96	95.0
MK # 3				

AZ Mark Station	580027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LEVELS RAN FROM TT 23 TX AND CHECKED USING TT 72 TX AND TT 67 WITH GPS BY CREW#S5112 IN AUG. OF 2010 UNDER JOB #080392. DIGITAL LEVELS THEN RAN FROM GPS 580022A ALONG W/A GPS CHECK ON TT 72 TX IN FEB. OF 2012 UNDER JOB #080392. **NOTE: ELEV. ON THIS POINT FROM DIGITAL LEVELS USED AS A CONSTRAINT FOR GPS STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580028	11/10/2011	AHTD	POPE	N/A	080427

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	111,228.5714	
Easting (M)	301,294.9658	
Elevation (M)*	139.643	
Northing (SFT)	364,922.4047	
Easting (SFT)	988,498.5670	
Elevation (SFT)*	458.145	

Convergence Angle	0	37	54.4018147
Scale Factor	0.999945647		
Elevation Adjust. Factor	0.9999780860		
Combined Adjust. Factor	0.9999237342		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	19	51.6637200
Longitude	93	5	8.5843320
Ellipsoid Height (M):	110.664		
Geoid Height (M):	-28.970		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 326 (WEIR ROAD), NORTHEAST OF RUSSELLVILLE, GO EAST ON HIGHWAY 124 2.7 MILES TO CENTER VALLEY ROAD AND TURN LEFT HERE AND GO 0.1 MILES TO THE MARK ON THE LEFT, SOUTHWEST 22.0 FEET OF THE CENTERLINE OF THE ROAD AND NORTHEAST 9.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2011 580028" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	318	3.66	12.0
MK # 2	COMBINATION POLE W/ 3 GUYS	56	26.82	88.0
MK # 3				

AZ Mark Station	580028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital Levels were ran by CLS from TBM 904 from Job 080389 and NGS BM X 65 during Job 080427 in March 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580028A	11/10/2011	AHTD	POPE	N/A	080427

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	111,456.1678	
Easting (M)	300,854.5617	
Elevation (M)*	140.020	
Northing (SFT)	365,669.1105	
Easting (SFT)	987,053.6745	
Elevation (SFT)*	459.382	

Convergence Angle	0	38	4.6070429
Scale Factor			0.999945494
Elevation Adjust. Factor			0.9999780268
Combined Adjust. Factor			0.9999235220

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	19	58.8907920
Longitude	93	5	26.1221280
Ellipsoid Height (M):	111.031		
Geoid Height (M):	-28.977		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 326 (WEIR ROAD), NORTHEAST OF RUSSELLVILLE, GO EAST ON HIGHWAY 124 2.7 MILES TO CENTER VALLEY ROAD AND TURN LEFT HERE AND GO 0.4 MILES TO THE MARK ON THE RIGHT, NORTH 26.0 FEET OF THE CENTERLINE OF THE ROAD AND SOUTH 6.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2011 580028A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	148	24.38	80.0
MK # 2				
MK # 3				

AZ Mark Station	580028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital Levels were ran by CLS from TBM 904 from Job 080389 and NGS BM X 65 during Job 080427 in March 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580029	2/16/2012	AHTD	POPE	64	080443

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,209.7605
Easting (M)	316,083.8219
Elevation (M)*	100.779
Northing (SFT)	332,052.3559
Easting (SFT)	1,037,018.3390
Elevation (SFT)*	330.640

Convergence Angle	0	32	11.4909177
Scale Factor	0.999953662		
Elevation Adjust. Factor	0.9999841847		
Combined Adjust. Factor	0.9999378474		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	14	31.4636604
Longitude	92	55	19.2882144
Ellipsoid Height (M):	72.075		
Geoid Height (M):	-28.704		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 64E, IN ATKINS, GO EAST ON HIGHWAY 64 0.8 MILES TO THE STATION MARK ON THE LEFT, 22.6 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580029 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	60	31.09	102.0
MK # 2	POWER POLE	300	28.35	93.0
MK # 3				

AZ Mark Station	580029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580029A	2/16/2012	AHTD	POPE	64	080443

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	101,191.5755	
Easting (M)	316,776.1629	
Elevation (M)*	100.905	
Northing (SFT)	331,992.6940	
Easting (SFT)	1,039,289.7944	
Elevation (SFT)*	331.051	

Convergence Angle	0	31	55.5524017
Scale Factor	0.999953673		
Elevation Adjust. Factor	0.9999841650		
Combined Adjust. Factor	0.9999378388		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - digital		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	14	31.0830900
Longitude	92	54	51.8977008
Ellipsoid Height (M):	72.207		
Geoid Height (M):	-28.698		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 64E, IN ATKINS, GO EAST ON HIGHWAY 64 1.2 MILES TO THE STATION MARK ON THE RIGHT, 27.3 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 48.4 FEET NORTH OF NORTH RAIL OF THE RAILROAD TRACKS. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "580029A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	90	24.87	81.6
MK # 2	UNDERGROUND CABLE MARKER	270	15.24	50.0
MK # 3				

AZ Mark Station	580029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATIONS BY S5112 ON 2/16/2012 FROM H 293 USING DIGITAL 3 WIRE LEVELS AND CHECKED BY GPS FROM P 293. DIGITAL ELEVATIONS ON THIS GPS POINT WERE USED AS A CONSTRAINT IN THE FINAL STATIC ADJUSTMENT BUT NOT IN THE INITIAL ADJUSTMENT USED TO CHECK GPS TIE BETWEEN H 293 & P 293.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580030	3/12/2015	AHTD	POPE	I 40	080497

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	111,947.8124	0.0030
Easting (M)	283,230.1032	0.0030
Elevation (M)*	134.125	

Northing (SFT)	367,282.1145	
Easting (SFT)	929,230.7636	
Elevation (SFT)*	440.041	

Convergence Angle	0	44	50.8323960
Scale Factor	0.999945304		
Elevation Adjust. Factor	0.9999789519		
Combined Adjust. Factor	0.9999242570		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	35	20	7.9458684
Longitude	93	17	4.2248292
Ellipsoid Height (M):	104.844		0.0050
Geoid Height (M):	-29.278		0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 334 AND I 40 OVERPASS (EXIT 74), NORTH OF LONDON, GO WEST ON I 40 FOR 1.65 MILES TO MARK ON LEFT, SOUTH 36 FEET FROM EDGE OF PAVEMENT AND NORTH 8.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 580030" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	580030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	P777

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM B 294 IN MARCH OF 2015 FOR JOB #080497.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580030A	3/12/2015	AHTD	POPE	I 40	080497

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,006.5154	0.0030
Easting (M)	282,568.3566	0.0020
Elevation (M)*	136.268	

Northing (SFT)	367,474.7093	
Easting (SFT)	927,059.6833	
Elevation (SFT)*	447.072	

Convergence Angle	0	45	6.0976125
Scale Factor			0.999945270
Elevation Adjust. Factor			0.9999786156
Combined Adjust. Factor			0.9999238868

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	35	20	9.5696844
Longitude	93	17	30.4582704
Ellipsoid Height (M):	106.975		0.0050
Geoid Height (M):	-29.286		0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 334 AND I 40 OVERPASS (EXIT 74), NORTH OF LONDON, GO WEST ON I 40 FOR 2.05 MILES TO MARK ON LEFT, SOUTH 25.7 FEET FROM EDGE OF PAVEMENT AND NORTH 6.2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2015 580030A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	580030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	P777

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM B 294 IN MARCH OF 2015 FOR JOB #080497.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580031	1/20/2016	AHTD	POPE	7	080506,CROOKED CREEK

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	121,973.1238	0.0020
Easting (M)	296,973.0852	0.0020
Elevation (M)*		
Northing (SFT)	400,173.4903	
Easting (SFT)	974,319.1970	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	25	38.7172020
Longitude	93	8	4.6126320
Ellipsoid Height (M):	101.947		0.0060
Geoid Height (M):	-28.910		0.0060

Convergence Angle	0	39	36.8325289
Scale Factor	0.999939661		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 333, NORTH OF DOVER, GO NORTH ON HIGHWAY 7 0.95 MILES TO THE MARK ON THE RIGHT, EAST 31 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH OF THE CENTERLINE OF AN ASPHAULT APRON 7 FEET. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580031" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	5	38.20	125.3
MK # 2	SOUTH HEADWAL	195	16.00	52.5
MK # 3				

AZ Mark Station	580031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM B 326.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580031A	1/20/2016	AHTD	POPE	7	080506,CROOKED CREEK

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	122,440.5299	0.0020
Easting (M)	296,983.4964	0.0020
Elevation (M)*		
Northing (SFT)	401,706.9718	
Easting (SFT)	974,353.3544	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	25	53.8871628	
Longitude	93	8	4.4134224	
Ellipsoid Height (M):	105.783			0.0050
Geoid Height (M):	-28.900			0.0050

Convergence Angle	0	39	36.7166090
Scale Factor	0.999939464		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 333, NORTH OF DOVER, GO NORTH ON HIGHWAY 7 1.2 MILES TO THE MARK ON THE RIGHT, EAST 21 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 13 FEET OF THE CENTERLINE OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580031A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	92	18.00	59.1
MK # 2	RCP	170	24.00	78.7
MK # 3				

AZ Mark Station	580031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM B 326.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580032	1/20/2016	AHTD	POPE	105	ALEWINE CREEK,080529

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	104,288.2104	0.0020
Easting (M)	314,910.6308	0.0010
Elevation (M)*		
Northing (SFT)	342,152.2370	
Easting (SFT)	1,033,169.2945	
Elevation (SFT)*		

Convergence Angle	0	32	39.1655330	
Scale Factor			0.999950915	
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	16	10.9958160	
Longitude	92	56	6.8473428	
Ellipsoid Height (M):	91.817	0.0040		
Geoid Height (M):	-28.806	0.0040		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 247N, 14 MILES SOUTH OF HECTOR, GO SOUTH ON HIGHWAY 105 0.3 MILES TO THE MARK ON THE LEFT, EAST 25 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 14.7 FEET OF THE CENTERLINE OF A GRAVEL DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580032" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH END OF CMP	72	14.00	45.9
MK # 2	COMBINATION POLE W/GUY	85	48.00	157.5
MK # 3				

AZ Mark Station	580032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580032A	1/20/2016	AHTD	POPE	105	ALEWINE CREEK,080529

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	104,789.5188	0.0020
Easting (M)	314,840.8937	0.0010
Elevation (M)*		
Northing (SFT)	343,796.9463	
Easting (SFT)	1,032,940.4987	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	16	27.2410104	
Longitude	92	56	9.7951272	
Ellipsoid Height (M):	96.235	0.0040		
Geoid Height (M):	-28.802	0.0040		

Convergence Angle	0	32	40.8808462
Scale Factor	0.999950488		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

THE STATION MARK IS LOCATED WEST OF THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 247N, 14 MILES SOUTH OF HECTOR, THE MARK IS WEST OF THE CENTERLINEOF HIGHWAY 105 29 FEET AND IN LINE WITH THE CENTERLINE OF HIGHWAY 247 HEADING EAST AND NORTH 14.5 FEET OF THE CENTERLINE OF AN ASPHAULT APRON. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580032A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	202	28.00	91.9
MK # 2	GAS METER	202	66.00	216.5
MK # 3	NORTH END GATE	260	29.50	96.8

AZ Mark Station	580032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580033	1/20/2016	AHTD	POPE	105	HECTOR CREEK,080529

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	119,952.5215	0.0020
Easting (M)	312,679.4014	0.0010
Elevation (M)*	189.306	0.0029
Northing (SFT)	393,544.2310	
Easting (SFT)	1,025,849.0028	
Elevation (SFT)*	621.083	

Convergence Angle	0	33	34.0575216
Scale Factor	0.999940497		
Elevation Adjust. Factor	0.9999702925		
Combined Adjust. Factor	0.9999107913		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	24	38.5780068
Longitude	92	57	41.1798240
Ellipsoid Height (M):	160.614		0.0040
Geoid Height (M):	-28.682		0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 124E, SOUTH OF HECTOR, GO NORTH ON HIGHWAY 105 0.5 MILES TO THE MARK ON THE LEFT, WEST 32 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 132.5 FEET OF THE CENTERLINE OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580033" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF A CMP	177	25.00	82.0
MK # 2				
MK # 3				

AZ Mark Station	580033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM H 66 BY S5112 IN JANUARY 2016 FOR HECTOR CREEK PROJECT.
**********GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580033A	1/20/2016	AHTD	POPE	105	HECTOR CREEK,080529

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	120,257.2027	0.0020
Easting (M)	312,346.6104	0.0020
Elevation (M)*	191.962	0.0030
Northing (SFT)	394,543.8392	
Easting (SFT)	1,024,757.1710	
Elevation (SFT)*	629.794	

Convergence Angle	0	33	41.8017669
Scale Factor			0.999940356
Elevation Adjust. Factor			0.9999698759
Combined Adjust. Factor			0.9999102337

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	24	48.3586488	
Longitude	92	57	54.4883940	
Ellipsoid Height (M):	163.275			0.0040
Geoid Height (M):	-28.682			0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 105 AND STATE HIGHWAY 124E, SOUTH OF HECTOR, GO NORTH ON HIGHWAY 105 0.65 MILES TO ROCK SPRINGS LOOP, TURN LEFT HERE (WEST) AND GO 0.2 MILES TO THE MARK ON THE LEFT, SOUTH 41 FEET OF THE CENTERLINE OF THE GRAVEL ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 580033A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	91	18.00	59.1
MK # 2	WATER METER	261	31.00	101.7
MK # 3	NORTHEAST CORNER CHICKEN HOUSE	267	127.00	416.7

AZ Mark Station	580033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 2ND ORDER NGS BM H 66 BY S5112 IN JANUARY 2016 FOR HECTOR CREEK PROJECT.
**********GPS DERIVED ELEV. FROM CONSTRAINING ORTHO HTS. ON ARFY, ARHR, ARLR & ON NGS BM J 293.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580034	8/11/2016	AHTD	POPE	331	080500

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	102,453.2395	0.0020
Easting (M)	304,380.9508	0.0020
Elevation (M)*	114.429	
Northing (SFT)	336,132.0033	
Easting (SFT)	998,623.1694	
Elevation (SFT)*	375.422	

Convergence Angle	0	36	41.1410417	
Scale Factor	0.999952626			
Elevation Adjust. Factor	0.9999820427			
Combined Adjust. Factor	0.9999346696			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid 12A			
Latitude	35	15	8.0082648	
Longitude	93	3	2.6848944	
Ellipsoid Height (M):	85.410	0.0030		
Geoid Height (M):	-29.015	0.0030		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, IN POTTSVILLE, GO NORTH ON HIGHWAY 331 0.15 MILES TO THE STATION ON THE RIGHT, 13.7 FEET NORTH NORTHEAST OF THE CENTER LINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 580034" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TRANSFORMER	305	63.00	206.7
MK # 2	NORTHWEST END OF GATE	111	69.50	228.0
MK # 3				

AZ Mark Station	580034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.
**********NOTE**********CONSTRAINED ORTHO. HTS. ON CORS ARFY, ARHR, & ARLR IN FINAL STATIC NETWORK ADJ. TO VERIFY U 293 & CHECKED FLAT
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580034A	8/11/2016	AHTD	POPE	331	080500,080686

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	102,734.8263	0.0020
Easting (M)	303,992.0968	0.0020
Elevation (M)*	117.180	
Northing (SFT)	337,055.8426	
Easting (SFT)	997,347.4043	
Elevation (SFT)*	384.448	

Convergence Angle	0	36	50.1611935	
Scale Factor			0.999952376	
Elevation Adjust. Factor			0.9999816110	
Combined Adjust. Factor			0.9999339879	

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 18	
Latitude	35 15 17.0103024	
Longitude	93 3 18.1861236	
Ellipsoid Height (M):	88.147	0.0030
Geoid Height (M):	-29.030	0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 331 AND STATE HIGHWAY 247, IN POTTSVILLE, GO NORTH ON HIGHWAY 331 0.45 MILES TO THE STATION ON THE RIGHT, 23.7 FEET NORTH OF THE CENTER LINE OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2016 580034A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	100	76.50	251.0
MK # 2	FIRE HYDRANT	203	69.40	227.7
MK # 3	LIGHT POLE	285	93.00	305.1

AZ Mark Station	580034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM U 293 BY S5112 IN AUG. 2016 FOR JOB # 080500.
**********NOTE**********CONSTRAINED ORTHO. HTS. ON CORS ARFY, ARHR, & ARLR IN FINAL STATIC NETWORK ADJ. TO VERIFY U 293 & CHECKED FLAT
****

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580035	12/27/2016	AHTD	POPE	SR-105	ISABELL CREEK, 080529

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	114,000.6834	0.0020
Easting (M)	312,839.1875	0.0020
Elevation (M)*		
Northing (SFT)	374,017.2421	
Easting (SFT)	1,026,373.2343	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	21	25.5028464	
Longitude	92	57	32.5489104	
Ellipsoid Height (M):	139.541			0.0050
Geoid Height (M):	-28.741			0.0050

Convergence Angle	0	33	29.0352005
Scale Factor	0.999943751		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM JCT OF SR-105 & SR-164 N OF ATKINS, GO N ON SR-105 0.1 MI TO STA ON R, JUST BEFORE THE CHURCH. 24' E OF OF SR-105 C/L. 23' S OF DRIVEWAY CTR. STA IS A 2 1/2" ALUM CAP STAMPED "580035 2016" SET BELLOW SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CTR OF RC BOX CU	194	27.00	88.6
MK # 2	COMBINATION POLE	55	18.00	59.1
MK # 3	FIRE HYDRANT	150	48.00	157.5

AZ Mark Station	580035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

GPS DERIVED ELEV. IS BASED ON CONSTRAINING ORHTOMETRIC HTS. ON AHTD CORS ARFY, ARHR, & ARLR AND ON 1ST ORDER NGS BM J 293 IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580035A	12/27/2016	AHTD	POPE	SR-105	ISABELL CREEK, 080529

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	114,474.6337	0.0020
Easting (M)	312,829.1777	0.0020
Elevation (M)*		
Northing (SFT)	375,572.1941	
Easting (SFT)	1,026,340.3938	
Elevation (SFT)*		

Convergence Angle	0	33	29.3723289	
Scale Factor	0.999943460			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	21	40.8785004	
Longitude	92	57	33.1282692	
Ellipsoid Height (M):	144.620			0.0050
Geoid Height (M):	-28.735			0.0050

Location Description

FROM JCT OF SR-105 & SR-164 N OF ATKINS, GO N ON SR-105 0.4 MI TO STA ON R, PAST THE ISABELL CREEK BR. 29' E OF OF SR-105 C/L. 30' N OF DRIVEWAY CTR. STA IS A 2 1/2" ALUM CAP STAMPED "580035A 2016" SET BELLOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	N END OF CMP	110	18.00	59.1
MK # 2	CTR OF E HEADWALL	165	83.00	272.3
MK # 3	CPOLE W/GUY	144	94.00	308.4

AZ Mark Station	580035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

GPS DERIVED ELEV. IS BASED ON CONSTRAINING ORHTOMETRIC HTS. ON AHTD CORS ARFY, ARHR, & ARLR AND ON 1ST ORDER NGS BM J 293 IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580036	10/1/2019	ARDOT	POPE	124	080616

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	121,348.4366	0.0020
Easting (M)	319,895.4567	0.0020
Elevation (M)*		
Northing (SFT)	398,123.9957	
Easting (SFT)	1,049,523.6775	
Elevation (SFT)*		

Convergence Angle	0	30	47.9162992	
Scale Factor	0.999939830			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	25	26.0648580	
Longitude	92	52	55.6643208	
Ellipsoid Height (M):	131.572		0.0090	
Geoid Height (M):	-28.583		0.0090	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 105, SOUTH OF HECTOR, GO EAST ON HIGHWAY 124 FOR 5.0 MILES TO THE MARK ON THE LEFT, NORTH 31' OF THE C/L OF THE HIGHWAY AND WEST 54.2' OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 580036" ON TOP OF A 2' REBAR DRIVEN BELOW THEW SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	79	9.69	31.8
MK # 2				
MK # 3				

AZ Mark Station	580036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580036A	10/1/2019	ARDOT	POPE	124	080616

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	121,321.6502	0.0020
Easting (M)	320,420.2274	0.0020
Elevation (M)*		
Northing (SFT)	398,036.1140	
Easting (SFT)	1,051,245.3627	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	25	25.3477452	
Longitude	92	52	34.8519648	
Ellipsoid Height (M):	121.668			0.0090
Geoid Height (M):	-28.576			0.0090

Convergence Angle	0	30	35.8056074
Scale Factor	0.999939840		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 105, SOUTH OF HECTOR, GO EAST ON HIGHWAY 124 FOR 5.3 MILES TO THE MARK ON THE RIGHT, SOUTH 20.6' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2019 580036A" ON TOP OF A 2' REBAR DRIVEN BELOW THEW SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	267	16.97	55.7
MK # 2	CENTER OF HEADWALL	82	5.12	16.8
MK # 3	COMBINATION POLE W/3 GUYS	132	8.84	29.0

AZ Mark Station	580036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580037	3/4/2020	ARDOT	POPE	27	080621

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	120,220.9766	0.0030
Easting (M)	300,751.1413	0.0030
Elevation (M)*		

Northing (SFT)	394,424.9874	
Easting (SFT)	986,714.3694	
Elevation (SFT)*		

Convergence Angle	0	38	9.2314057
Scale Factor	0.999940429		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	35	24	43.2511776	
Longitude	93	5	34.0691460	
Ellipsoid Height (M):	120.780			0.0110
Geoid Height (M):	-28.902			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164S, EAST OF DOVER, GO NORTH ON HIGHWAY 27 1.5 MILES TO THE MARK ON THE RIGHT, ESE OF THE C/L OF HIGHWAY 27 23' AND 55.7' NE OF THE C/L LANDERS LOOP. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580037" ON TOP OF A 4' REBAR DRIVEN BELOLW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/LIGHT & TRANSFO BMER	159	6.10	20.0
MK # 2				
MK # 3				

AZ Mark Station	580037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580037A	3/4/2020	ARDOT	POPE	27	080621

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	120,565.0798	0.0030
Easting (M)	301,007.9460	0.0020
Elevation (M)*		

Northing (SFT)	395,553.9326	
Easting (SFT)	987,556.9028	
Elevation (SFT)*		

Convergence Angle	0	38	3.3964031
Scale Factor	0.999940268		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	24	54.5088420
Longitude	93	5	24.0416304
Ellipsoid Height (M):	120.083		0.0100
Geoid Height (M):	-28.892		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164S, EAST OF DOVER, GO NORTH ON HIGHWAY 27 7.5 MILES TO THE MARK ON THE LEFT, NW OF THE C/L OF HIGHWAY 27 24.5' . THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580037A" ON TOP OF A 4' REBAR DRIVEN BELOLW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	238	12.62	41.4
MK # 2	WATER LINE SIGN	19	15.97	52.4
MK # 3				

AZ Mark Station	580037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580038	3/4/2020	ARDOT	POPE	27	080621

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,207.5277	0.0030
Easting (M)	304,985.5733	0.0020
Elevation (M)*		
Northing (SFT)	407,504.1971	
Easting (SFT)	1,000,606.8351	
Elevation (SFT)*		

Convergence Angle	0	36	32.5467326
Scale Factor	0.999938733		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	26	54.0977208
Longitude	93	2	47.9154804
Ellipsoid Height (M):	122.804		0.0100
Geoid Height (M):	-28.780		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164N, IN SCOTTSVILLE, GO SOUTH ON CLOUD MTN RD. 71.7' TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF HIGHWAY 27 71.7' AND WEST OF THE C/L OF CLOUD MNT RD 30.9'.. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580038" ON TOP OF A 4' REBAR DRIVEN BELOLW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/GUY	22	9.63	31.6
MK # 2	SOUTH HDWL	229	18.59	61.0
MK # 3				

AZ Mark Station	580038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
580038A	3/4/2020	ARDOT	POPE	27	080621

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,558.4353	0.0020
Easting (M)	305,013.9614	0.0020
Elevation (M)*		

Northing (SFT)	408,655.4665	
Easting (SFT)	1,000,699.9717	
Elevation (SFT)*		

Convergence Angle	0	36	31.9777476
Scale Factor			0.999938604
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	27	5.4936036
Longitude	93	2	46.9376736
Ellipsoid Height (M):	113.210		0.0090
Geoid Height (M):	-28.775		0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 164N, IN SCOTTSVILLE, GO NORTH ON HIGHWAY 164 0.15 MILES TO THE MARK ON THE LEFT, WEST OF THE C/L OF HIGHWAY 164 31' AND SOUTH OF THE C/L OF A FIELD ROAD 15'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 580038A" ON TOP OF A 4' REBAR DRIVEN BELOLW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	283	8.47	27.8
MK # 2	CENTER OF GATE	309	15.70	51.5
MK # 3				

AZ Mark Station	580038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590001	5/6/1997	AHTD	PRAIRIE	165	001701

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	607,529.4218
Easting (M)	433,150.1360
Elevation (M)*	61.097
Northing (SFT)	1,993,202.7780
Easting (SFT)	1,421,093.4045
Elevation (SFT)*	200.449
Convergence Angle	0 12 7.6405377
Scale Factor	0.999956877
Elevation Adjust. Factor	0.9999904120
Combined Adjust. Factor	0.9999472894

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	13.9909236
Longitude	91	38	19.9238064
Ellipsoid Height (M):	34.650		
Geoid Height (M):	-26.447		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 11, LOCATED ABOUT 3.22 (2.00 MI) NORTH OF STUTTGART, GO EAST ON U.S. HIGHWAY 165 FOR 3.54 KM (2.20 MI) TO THE ARKANSAS-PRAIRIE COUNTY LINE, CONTINUE EAST ON U.S. HIGHWAY 165 FOR 4.10 KM (2.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.80 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 165 AND 0.84 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590001 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	176	1.05	3.4
MK # 2	IRRIGATION RISER	198	3.70	12.1
MK # 3				

AZ Mark Station	590009
Geodetic Azimuth	89 05 14
Grid Azimuth	88 53 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	ARLR
Ref Mon # 3	590007, 590007A

Comments

Elevation based on 3-wire from NGS Point N 113 (66.231 meters)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590002	5/6/1997	AHTD	PRAIRIE	165	001701

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	607,594.1939	
Easting (M)	436,942.3240	
Elevation (M)*	59.584	
Northing (SFT)	1,993,415.2845	
Easting (SFT)	1,433,534.9413	
Elevation (SFT)*	195.485	

Convergence Angle	0	13	30.8832734
Scale Factor	0.999956947		
Elevation Adjust. Factor	0.9999906494		
Combined Adjust. Factor	0.9999475968		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	15.6340104
Longitude	91	35	51.1939140
Ellipsoid Height (M):	33.112		
Geoid Height (M):	-26.472		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 165 AND STATE HIGHWAY 11, LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF STATTGRAT, GO EAST ON U.S. HIGHWAY 165 FOR 3.54 KM (2.20 MI) TO THE ARKANSAS-PRAIRIE COUNTY LINE, CONTINUE EAST ON U.S. HIGHWAY 165 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 21.750 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 19.560 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 165 AND 2.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590002 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF 0.70 METER RCP	98	18.71	61.4
MK # 2	WEST END OF 0.70 METER RCP	159	36.81	120.8
MK # 3	POWER POLE	197	40.98	134.5

AZ Mark Station	590010
Geodetic Azimuth	156 36 05
Grid Azimuth	156 22 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ
Ref Mon # 2	ARLR
Ref Mon # 3	590007, 590007A

Comments

Elevation based on 3-wire from NGS Point N 113 (66.231 meters)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590003	1/5/2001	AHTD	PRAIRIE	63	060986

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	34,111.8570
Easting (M)	440,814.9179
Elevation (M)*	66.348
Northing (SFT)	111,915.3175
Easting (SFT)	1,446,240.2765
Elevation (SFT)*	217.677

Convergence Angle	0	15	32.4722621
Scale Factor			1.000070609
Elevation Adjust. Factor			0.9999895879
Combined Adjust. Factor			1.0000601962

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	38	23.8912872	
Longitude	91	33	17.5362444	
Ellipsoid Height (M):	39.715			
Geoid Height (M):	-26.633			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 7.89 KM (4.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.60 METERS WEST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590003 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 937. THE SHOT DISTANCE IS 772.287 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	345	39.30	128.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	83-99
Geodetic Azimuth	180 20 26.44732
Grid Azimuth	180 04 53.97628

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point C 114

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590004	1/5/2001	AHTD	PRAIRIE	63	060986

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	39,375.5931	
Easting (M)	440,815.3669	
Elevation (M)*	64.585	
Northing (SFT)	129,184.7584	
Easting (SFT)	1,446,241.7496	
Elevation (SFT)*	211.893	

Convergence Angle	0	15	33.0264910
Scale Factor	1.000057439		
Elevation Adjust. Factor	0.9999898646		
Combined Adjust. Factor	1.0000473030		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	41	14.6952204
Longitude	91	33	16.5837960
Ellipsoid Height (M):	37.883		
Geoid Height (M):	-26.702		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 13.28 KM (8.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 12.50 METERS SOUTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590004 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 950. THE SHOT DISTANCE IS 700.772 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	342	9.20	30.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	590004A
Geodetic Azimuth	181 32 34.45622
Grid Azimuth	181 17 01.43448

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point C 114

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590004A	1/5/2001	AHTD	PRAIRIE	63	060986

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	38,674.9593	
Easting (M)	440,799.6664	
Elevation (M)*	64.588	
Northing (SFT)	126,886.0956	
Easting (SFT)	1,446,190.2388	
Elevation (SFT)*	211.902	

Convergence Angle	0	15	32.5951725
Scale Factor	1.000059153		
Elevation Adjust. Factor	0.9999898641		
Combined Adjust. Factor	1.0000490165		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	40	51.9624696	
Longitude	91	33	17.3250216	
Ellipsoid Height (M):	37.895			
Geoid Height (M):	-26.693			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 12.63 KM (7 .85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 8.70 METERS NORTH OF A FIELD ENTRANCE ANS 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590004A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 948. THE SHOT DISTANCE IS 700.772 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF A CONCRETE HEADWALL	332	26.45	86.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	590004
Geodetic Azimuth	1 32 34.034420
Grid Azimuth	1 17 01.434481

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point C 114

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590005	1/5/2001	AHTD	PRAIRIE	63	060986

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	43,132.2727	
Easting (M)	440,944.2038	
Elevation (M)*	67.104	
Northing (SFT)	141,509.7980	
Easting (SFT)	1,446,664.4420	
Elevation (SFT)*	220.157	

Convergence Angle	0	15	36.3614650
Scale Factor	1.000048454		
Elevation Adjust. Factor	0.9999894693		
Combined Adjust. Factor	1.0000379228		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	43	16.5780300
Longitude	91	33	10.8526068
Ellipsoid Height (M):	40.354		
Geoid Height (M):	-26.751		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 17.06 KM (10.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.30 METERS NORTH OF A FIELD ENTRANCE, 14.21 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590005 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 959. THE SHOT DISTANCE IS 550.717 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER VALVE	70	3.98	13.1
MK # 2	TELEPHONE JUNCTION BOX	253	1.85	6.1
MK # 3	NONE			

AZ Mark Station	590005A
Geodetic Azimuth	3 37 07.693675
Grid Azimuth	3 21 31.323814

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point C 114

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590005A	1/5/2001	AHTD	PRAIRIE	63	060986

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	43,682.0700	
Easting (M)	440,976.4701	
Elevation (M)*	66.090	
Northing (SFT)	143,313.5913	
Easting (SFT)	1,446,770.3023	
Elevation (SFT)*	216.830	

Convergence Angle	0	15	37.1564870
Scale Factor	1.000047167		
Elevation Adjust. Factor	0.9999896284		
Combined Adjust. Factor	1.0000367949		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	43	34.4138664
Longitude	91	33	9.4863528
Ellipsoid Height (M):	39.332		
Geoid Height (M):	-26.758		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 17.62 KM (10.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.85 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590005A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 960. THE SHOT DISTANCE IS 550.717 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	590005
Geodetic Azimuth	183 37 08.47192
Grid Azimuth	183 21 31.32381

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point C 114

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590006	1/5/2001	AHTD	PRAIRIE	63	061083

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	49,446.2224	
Easting (M)	441,175.8266	
Elevation (M)*	70.108	
Northing (SFT)	162,224.8147	
Easting (SFT)	1,447,424.3578	
Elevation (SFT)*	230.013	

Convergence Angle	0	15	42.3180833
Scale Factor	1.000034127		
Elevation Adjust. Factor	0.9999889979		
Combined Adjust. Factor	1.0000231245		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	46	41.4281208	
Longitude	91	33	0.6160932	
Ellipsoid Height (M):	43.277			
Geoid Height (M):	-26.831			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 23.34 KM (14.50 MI) TO A "Y" JUNCTION AND THE STATION STRAIGHT AHEAD. THE STATION IS 15.60 METERS WEST OF THE CENTER OF THE HIGHWAY, 13.00 METERS EAST OF THE CENTER OF THE HIGHWAY AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDAD 64mm CAP STAMPED "590006 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 973=BENCH MARK K 109. THE SHOT DISTANCE IS 660.417 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	590006A
Geodetic Azimuth	182 34 24.06304
Grid Azimuth	182 18 41.75167

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point K 109

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590006A	1/5/2001	AHTD	PRAIRIE	63	061083

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	48,786.3160	
Easting (M)	441,149.1882	
Elevation (M)*	69.553	
Northing (SFT)	160,059.7717	
Easting (SFT)	1,447,336.9616	
Elevation (SFT)*	228.192	

Convergence Angle	0	15	41.6395238
Scale Factor	1.000035579		
Elevation Adjust. Factor	0.9999890850		
Combined Adjust. Factor	1.0000246636		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	46	20.0184096
Longitude	91	33	1.7822052
Ellipsoid Height (M):	42.731		
Geoid Height (M):	-26.822		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 22.69 KM (14.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590006A 20001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 972. THE SHOT DISTANCE IS 660.417 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	590006
Geodetic Azimuth	2 34 23.397932
Grid Azimuth	2 18 41.751673

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point C 114

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590007	1/5/2001	AHTD	PRAIRIE	63	060986, 020325

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	28,615.4988	
Easting (M)	440,700.0013	
Elevation (M)*	67.280	
Northing (SFT)	93,882.6823	
Easting (SFT)	1,445,863.2543	
Elevation (SFT)*	220.734	

Convergence Angle	0	15	29.2811385
Scale Factor	1.000085080		
Elevation Adjust. Factor	0.9999894417		
Combined Adjust. Factor	1.0000745208		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	35	25.5567552
Longitude	91	33	23.0202252
Ellipsoid Height (M):	40.717		
Geoid Height (M):	-26.563		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 2.57 KM (1.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63, 11.45 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590007 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM TBM 923. THE SHOT DISTANCE IS 580.046 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRRIGATION PIPE RISER	20	7.00	23.0
MK # 2	COMBINATION POLE	190	7.50	24.6
MK # 3	NONE			

AZ Mark Station	590007A
Geodetic Azimuth	1 40 01.327287
Grid Azimuth	1 24 32.041457

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point X 113

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590007A	1/5/2001	AHTD	PRAIRIE	63	060986, 020325

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	29,195.4187
Easting (M)	440,714.2644
Elevation (M)*	66.602
Northing (SFT)	95,785.3029
Easting (SFT)	1,445,910.0491
Elevation (SFT)*	218.510
Convergence Angle	0 15 29.6664753
Scale Factor	1.000083519
Elevation Adjust. Factor	0.9999895481
Combined Adjust. Factor	1.0000730662

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 35 44.3724396
Longitude	91 33 22.3580196
Ellipsoid Height (M):	40.032
Geoid Height (M):	-26.570

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 3.14 KM (1.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.40 METERS EAST OF THE CENTER OF U.S. HIGHWAY 63 AND 0.28 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "590007A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 925. THE SHOT DISTANCE IS 580.046 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	0	33.40	109.6
MK # 2	TELEPHONE MAN HOLE COVER	269	30.30	99.4
MK # 3	NONE			

AZ Mark Station	590007
Geodetic Azimuth	181 40 01.70325
Grid Azimuth	181 24 32.04146

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point Y 113

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590008	12/30/2002	AHTD	PRAIRIE	249	061083

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	50,870.4089
Easting (M)	437,683.2890
Elevation (M)*	
Northing (SFT)	166,897.3332
Easting (SFT)	1,435,965.9240
Elevation (SFT)*	
Convergence Angle	0 14 22.5278379
Scale Factor	1.000030996
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	47	28.1382252
Longitude	91	35	17.7365004
Ellipsoid Height (M):			
Geoid Height (M):	-26.846		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 249 LOCATED ON THE WEST SIDE OF HAZEN, GO NORTH ON STATE HIGHWAY 249 FOR 0.75 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.25 METERS WEST OF THE CENTER OF STATE HIGHWAY 249 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "590008 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	355	22.50	73.8
MK # 2				
MK # 3				

AZ Mark Station	590008A
Geodetic Azimuth	182 04 34
Grid Azimuth	181 50 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016
Ref Mon # 2	AHTD MON1
Ref Mon # 3	AHTD LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590008A	12/30/2002	AHTD	PRAIRIE	249	061083

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	50,121.0059
Easting (M)	437,659.2610
Elevation (M)*	
Northing (SFT)	164,438.6669
Easting (SFT)	1,435,887.0921
Elevation (SFT)*	
Convergence Angle	0 14 21.9061951
Scale Factor	1.000032619
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 47 3.8236380
Longitude	91 35 18.8048004
Ellipsoid Height (M):	
Geoid Height (M):	-26.836

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 249 LOCATED ON THE WEST SIDE OF HAZEN, GO NORTH ON STATE HIGHWAY 249 FOR 0.27 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.10 METERS WEST OF THE CENTER OF STATE HIGHWAY 249 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "590008A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	90	22.50	73.8
MK # 2				
MK # 3				

AZ Mark Station	590008
Geodetic Azimuth	002 04 33
Grid Azimuth	001 50 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	480016
Ref Mon # 2	AHTD MON1
Ref Mon # 3	AHTD LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590009	1/24/2008	AHTD	PRAIRIE	165	001701

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	607,538.5209
Easting (M)	433,617.7330
Elevation (M)*	
Northing (SFT)	1,993,232.6307
Easting (SFT)	1,422,627.5124
Elevation (SFT)*	
Convergence Angle	0 12 17.9048490
Scale Factor	0.999956887
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 32 14.2323072
Longitude	91 38 1.5845496
Ellipsoid Height (M):	34.728
Geoid Height (M):	-26.451

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND THE ARKANSAS PRAIRIE COUNTY LINE, NORTHWEST OF STUTTGARTH, GO WEST ON HIGHWAY 165 FOR 2.10 MILES TO THE STATION MARK ON THE LEFT, SOUTH 87.0 FEET OF THE CENTER OF THE HIGHWAY AND NORTH 1.49 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590009 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	253	10.67	35.0
MK # 2				
MK # 3				

AZ Mark Station	590001
Geodetic Azimuth	269 05 25
Grid Azimuth	268 53 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT AZ MK
Ref Mon # 2	ARLR
Ref Mon # 3	590007, 59007A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590010	1/24/2008	AHTD	PRAIRIE	NA	001701

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	607,155.7709
Easting (M)	437,134.0850
Elevation (M)*	
Northing (SFT)	1,991,976.8917
Easting (SFT)	1,434,164.0772
Elevation (SFT)*	
Convergence Angle	0 13 35.0543543
Scale Factor	0.999956343
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	1.3811496
Longitude	91	35	43.7414388
Ellipsoid Height (M):	32.713		
Geoid Height (M):	-26.467		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 165 AND THE ARKANSAS PRAIRIE COUNTY LINE, NORTHWEST OF STUTTGARTH, AT THE JUNCTION OF THE HIGHWAY AND THE COUNTY LINE TURN SOUTH ON A GRAVEL ROAD (WESINGER RD.) AND GO 0.20 MILES TO THE MARK ON THE RIGHT, WEST 34.3 FEET OF THE CENTER OF THE ROAD AND WEST 1.49 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590010 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	48	25.30	83.0
MK # 2	TELEPHONE PEDASTAL	81	1.46	4.8
MK # 3				

AZ Mark Station	590002
Geodetic Azimuth	336 36 09
Grid Azimuth	336 22 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	ARLR
Ref Mon # 3	590007, 590007A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590011	4/12/2011	AHTD	PRAIRIE	I 40	001726

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	638,776.0871	
Easting (M)	439,628.7520	
Elevation (M)*	71.140	
Northing (SFT)	2,095,717.8791	
Easting (SFT)	1,442,348.6639	
Elevation (SFT)*	233.400	

Convergence Angle	0	14	32.7456235
Scale Factor	1.000012015		
Elevation Adjust. Factor	0.9999888359		
Combined Adjust. Factor	1.0000008508		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	49	7.1875128
Longitude	91	34	0.6643812
Ellipsoid Height (M):	44.253		
Geoid Height (M):	-26.887		

Location Description

THE STATION MARK IS AT THE SOUTHWEST CORNER OF THE HIGHWAY 63 BRIDGE OVER I 40 (EXIT 193), NORTH OF HAZEN. THE MARK IS WEST 18.3 FEET OF THE CENTERLINE OF HIGHWAY 63 AND WEST OF A WITNESS POST 2.8 FEET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "59001 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER OF BRIDGE	336	9.14	30.0
MK # 2	1'X2' DROP INLET	130	3.60	11.8
MK # 3				

AZ Mark Station	590011A
Geodetic Azimuth	180 42 42
Grid Azimuth	180 28 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSB6

Comments

ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590011A	4/12/2011	AHTD	PRAIRIE	63	001726

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	638,124.6001	
Easting (M)	439,623.4170	
Elevation (M)*	67.503	
Northing (SFT)	2,093,580.4588	
Easting (SFT)	1,442,331.1606	
Elevation (SFT)*	221.465	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	48	46.0474056	
Longitude	91	34	0.9827472	
Ellipsoid Height (M):	40.624			
Geoid Height (M):	-26.878			

Convergence Angle	0	14	32.5674370
Scale Factor	1.000010617		
Elevation Adjust. Factor	0.9999894068		
Combined Adjust. Factor	1.0000000237		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 63/11, NORTH OF HAZEN, GO SOUTH ON HIGHWAY 11/63 FOR 0.4 MILES TO THE MARK ON THE RIGHT, WEST 35.5 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 2.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590011A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	590011
Geodetic Azimuth	0 42 42
Grid Azimuth	0 28 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSB6

Comments

ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590012	4/12/2011	AHTD	PRAIRIE	I 40	001726

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	639,171.0890	
Easting (M)	444,691.0950	
Elevation (M)*	66.011	
Northing (SFT)	2,097,013.8145	
Easting (SFT)	1,458,957.3675	
Elevation (SFT)*	216.572	

Convergence Angle	0	16	24.2737263
Scale Factor	1.000012819		
Elevation Adjust. Factor	0.9999896408		
Combined Adjust. Factor	1.0000024597		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	49	19.2658512	
Longitude	91	30	41.3969904	
Ellipsoid Height (M):	39.123			
Geoid Height (M):	-26.888			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND THE WHITE RIVER, NORTHWEST OF BISCOE, GO WEST ON I 40 3.35 MILES TO THE MARK ON THE RIGHT, NORTH 8 FEET FROM THE ASPHAULT SHOULDER AND SOUTH 40 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590012 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	590012A
Geodetic Azimuth	248 46 01
Grid Azimuth	248 29 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSB6

Comments

ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590012A	4/12/2011	AHTD	PRAIRIE	I 40	001726

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	638,848.7970	
Easting (M)	443,873.1830	
Elevation (M)*	66.928	
Northing (SFT)	2,095,956.4282	
Easting (SFT)	1,456,273.9346	
Elevation (SFT)*	219.580	

Convergence Angle	0	16	6.2271014
Scale Factor	1.000012131		
Elevation Adjust. Factor	0.9999894969		
Combined Adjust. Factor	1.0000016278		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	49	8.9329692
Longitude	91	31	13.6409160
Ellipsoid Height (M):	40.043		
Geoid Height (M):	-26.885		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND HIGHWAY 11 (EXIT 193), NORTH OF HAZEN, GO EAST ON I 40 2.6 MILES TO THE MARK ON THE LEFT, SOUTH 15.5 FEET FROM THE SOUTH EDGE OF THE WEST BOUND EDGE OF PAVEMENT AND NORTH 1.5 FEET FROM A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590012A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	590012
Geodetic Azimuth	68 45 42
Grid Azimuth	68 29 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSB6

Comments

ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590013	4/12/2011	AHTD	PRAIRIE	I 40	001726

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	640,698.4491	
Easting (M)	448,193.3650	
Elevation (M)*	58.548	
Northing (SFT)	2,102,024.8284	
Easting (SFT)	1,470,447.7317	
Elevation (SFT)*	192.088	

Convergence Angle	0	17	41.5793007
Scale Factor	1.000016113		
Elevation Adjust. Factor	0.9999908119		
Combined Adjust. Factor	1.0000069248		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	50	8.2648428	
Longitude	91	28	23.2750308	
Ellipsoid Height (M):	31.650			
Geoid Height (M):	-26.899			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF HIGHWAY 11 AND I 40 (EXIT 193), NORTH OF HAZEN, GO EAST ON I 40 FOR 5.5 MILES TO THE HIGHWAY REST AREA EXIT RAMP. TAKE THE EXIT RAMP AND GO 0.05 MILES TO THE MARK ON THE LEFT IN THE MEDIAN, BETWEEN THE EXIT RAMP AND I 40 EAST BOUND LANES, 8.5 FEET NORTH OF NORTH EDGE OF EXIT RAMP AND 30.0 FEET SOUTH OF SOUTH EDGE OF THE EAST BOUND LANE. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590013 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	590013A
Geodetic Azimuth	51 30 05
Grid Azimuth	51 12 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSB6

Comments

ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590013A	4/12/2011	AHTD	PRAIRIE	I 40	001726

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	640,959.8680	
Easting (M)	448,518.5810	
Elevation (M)*	61.595	
Northing (SFT)	2,102,882.5003	
Easting (SFT)	1,471,514.7112	
Elevation (SFT)*	202.084	

Convergence Angle	0	17	48.7727054
Scale Factor	1.000016686		
Elevation Adjust. Factor	0.9999903338		
Combined Adjust. Factor	1.0000070196		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	50	16.6933140
Longitude	91	28	10.4225664
Ellipsoid Height (M):	34.694		
Geoid Height (M):	-26.901		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND THE WHITE RIVER, NORTHWEST OF BISCOE, GO WEST ON I 40 0.70 MILES TO THE EXIT FOR THE REST AREA, TAKE THE REST AREA EXIT AND AT THE Y GO RIGHTAND GO TO THE GRAVEL AREA NORTH OF THE REST ROOMS AND EAST OF A CHAINLINK FENCE TO THE MARK ON THE LEFT, SOUTH OF A BRICK ELECTRICAL BUILDING AND NORTH 20.6 FEET OF THE NORTHERN MOST PAVEMENT EDGE AND SOUTH 107 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590012A 2011" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE OF NE CORNER OF CHAINLINK FENCE	261	24.63	80.8
MK # 2	LIGHT POLE		26.21	86.0
MK # 3	LIGHT POLE		28.29	92.8

AZ Mark Station	590013
Geodetic Azimuth	231 30 12
Grid Azimuth	231 12 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	MSB6

Comments

ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM J 1378, S 109 AND CHECKED BY GPS USING D 31.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590014	4/12/2011	AHTD	PRAIRIE	33	001726

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	641,935.3341	
Easting (M)	453,534.2210	
Elevation (M)*	64.523	
Northing (SFT)	2,106,082.8420	
Easting (SFT)	1,487,970.1901	
Elevation (SFT)*	211.690	

Convergence Angle	0	19	39.3783488	
Scale Factor	1.000018790			
Elevation Adjust. Factor	0.9999898743			
Combined Adjust. Factor	1.0000086641			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	50	47.4598176	
Longitude	91	24	52.8033348	
Ellipsoid Height (M):	37.629			
Geoid Height (M):	-26.890			

Location Description

THE STATION MARK IS AT THE NORTHWEST CORNER OF THE HIGHWAY 33 BRIDGE OVER I 40, NORTH OF DEVALLS BLUFF, 20 FEET WEST OF THE CENTERLINE OF HIGHWAY 33 AND 3.7 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590014 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CATCH BASIN	358	8.53	28.0
MK # 2	NORTHWEST COR OF BLDGING	135	41.15	135.0
MK # 3				

AZ Mark Station	590014A
Geodetic Azimuth	2 19 39
Grid Azimuth	2 00 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSB6

Comments

ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM D 31 AND CHECKED BY GPS USING J 1378 AND S 109

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590014A	4/12/2011	AHTD	PRAIRIE	33	001726

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	642,611.4060	
Easting (M)	453,557.8300	
Elevation (M)*	53.118	
Northing (SFT)	2,108,300.9212	
Easting (SFT)	1,488,047.6473	
Elevation (SFT)*	174.272	

Convergence Angle	0	19	39.9836550
Scale Factor	1.000020303		
Elevation Adjust. Factor	0.9999916641		
Combined Adjust. Factor	1.0000119669		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	51	9.3935952
Longitude	91	24	51.7218336
Ellipsoid Height (M):	26.217		
Geoid Height (M):	-26.897		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 40 AND STATE HIGHWAY 33, NORTH OF DEVALLS BLUFF, GO NORTH ON HIGHWAY 33 FOR 0.3 MILES TO THE MARK ON THE RIGHT, EAST 21 FEET OF THE CENTERLINE AND WEST 38.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "590014A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	100	12.19	40.0
MK # 2				
MK # 3				

AZ Mark Station	590014
Geodetic Azimuth	182 19 40
Grid Azimuth	182 00 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSB6

Comments

ELEVATIONS ESTABLISHED BY CREW S5112 ON 4/2011 USING 3 WIRE DIGITAL LEVELS FROM D 31 AND CHECKED BY GPS USING J 1378 AND S 109

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590015		CLS	PRAIRIE	70	110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	640,243.1615	0.0030
Easting (M)	456,904.4258	0.0030
Elevation (M)*	57.064	0.0066
Northing (SFT)	2,100,531.1057	
Easting (SFT)	1,499,027.2703	
Elevation (SFT)*	187.217	

Convergence Angle	0	20	53.3968818
Scale Factor	1.000015007		
Elevation Adjust. Factor	0.9999910449		
Combined Adjust. Factor	1.0000060518		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	49	51.9046320
Longitude	91	22	40.5543360
Ellipsoid Height (M):	30.139		0.0080
Geoid Height (M):	-26.965		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 7.77 MILES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	N OF EP HWY 70		2.07	6.8
MK # 2	SE OF PP WITH GY E SIDE OF BRASFIELD R D INTERSECTION		10.94	35.9
MK # 3	S OF WITNESS POST		3.51	11.5

AZ Mark Station	590015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

Position and elevation determined by C.L.S. in April 2018 deuring job 110664, constraining elevation on Q170.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590015A		CLS	PRAIRIE	70	110664

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	640,108.0994	0.0020
Easting (M)	456,468.4098	0.0020
Elevation (M)*	58.600	0.0067
Northing (SFT)	2,100,087.9894	
Easting (SFT)	1,497,596.7745	
Elevation (SFT)*	192.256	

Convergence Angle	0	20	43.7753355
Scale Factor	1.000014717		
Elevation Adjust. Factor	0.9999908039		
Combined Adjust. Factor	1.0000055207		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	34	49	47.6075640
Longitude	91	22	57.7451640
Ellipsoid Height (M):	31.666		0.0070
Geoid Height (M):	-26.966		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 17, LOCATED ABOUT 6.44 KM (4.00 MI) SOUTHWEST OF BRINKLEY, GO WEST 8.07 MILES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	S OF EP HWY 70		2.90	9.5
MK # 2	N OF WITNESS POST		2.53	8.3
MK # 3	W OF FIELD ENTRANCE		76.20	250.0

AZ Mark Station	590015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	MSB5

Comments

Position and elevation determined by C.L.S. in April 2018 deuring job 110664, constraining elevation on Q170.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590016	12/14/2020	ARDOT	PRAIRIE	86	06X284

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	626,941.7892	0.0020
Easting (M)	429,223.2331	0.0020
Elevation (M)*		

Northing (SFT)	2,056,891.5201	
Easting (SFT)	1,408,209.8906	
Elevation (SFT)*		

Convergence Angle	0	10	42.7740273
Scale Factor			0.999988338
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	42	44.3950092	
Longitude	91	40	51.5548992	
Ellipsoid Height (M):			39.298	0.0100
Geoid Height (M):			-26.799	0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 86, EAST OF CARLISLE, GO SOUTH ON STATE HIGHWAY 86E 4.85 MILES TO THE MARK ON THE LEFT, EAST 42.2' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590016 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	590016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590016A	12/14/2020	ARDOT	PRAIRIE	86	06X284

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	627,423.0500	0.0020
Easting (M)	429,231.7572	0.0020
Elevation (M)*		
Northing (SFT)	2,058,470.4565	
Easting (SFT)	1,408,237.8567	
Elevation (SFT)*		

Convergence Angle	0	10	42.9945143
Scale Factor			0.999989236
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	43	0.0117984
Longitude	91	40	51.1609548
Ellipsoid Height (M):	40.009		0.0100
Geoid Height (M):	-26.806		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 86, EAST OF CARLISLE, GO SOUTH ON STATE HIGHWAY 86E 4.55 MILES TO THE MARK ON THE LEFT, EAST 39' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590016A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	590016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590017	12/14/2020	ARDOT	PRAIRIE	86	06X281

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	628,738.7840	0.0040
Easting (M)	441,594.5968	0.0040
Elevation (M)*		
Northing (SFT)	2,062,787.1605	
Easting (SFT)	1,448,798.2730	
Elevation (SFT)*		

Convergence Angle	0	15	15.0582978	
Scale Factor	0.999991633			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	43	41.1939408	
Longitude	91	32	45.0642768	
Ellipsoid Height (M):	39.117			0.0150
Geoid Height (M):	-26.879			0.0150

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 86 AND STATE HIGHWAY 63, SOUTH OF HAZEN, GO EAST ON STATE HIGHWAY 86 0.35 MILES TO THE MARK ON THE RIGHT, SOUTH 34.8' OF THE C/L OF THE HIGHWAY AND 36.7' EAST OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590017 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END CULVERT	303	6.28	20.6
MK # 2	POWER POLE	258	4.21	13.8
MK # 3				

AZ Mark Station	590017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
590017A	12/14/2020	ARDOT	PRAIRIE	86	06X281

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	628,728.1651	0.0050
Easting (M)	442,050.9556	0.0050
Elevation (M)*		
Northing (SFT)	2,062,752.3217	
Easting (SFT)	1,450,295.5102	
Elevation (SFT)*		

Convergence Angle	0	15	25.0967584	
Scale Factor	0.999991608			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	43	40.7832816	
Longitude	91	32	27.1285476	
Ellipsoid Height (M):	39.217	0.0150		
Geoid Height (M):	-26.879	0.0150		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 86 AND STATE HIGHWAY 63, SOUTH OF HAZEN, GO EAST ON STATE HIGHWAY 86 0.65 MILES TO THE MARK ON THE RIGHT, SOUTH 33' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "590017A 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	2.77	9.1
MK # 2				
MK # 3				

AZ Mark Station	590017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARPB
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600001	3/28/1990	AHTD	PULASKI	338	OFFICE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	37,740.6969	
Easting (M)	364,758.9490	
Elevation (M)*		

Northing (SFT)	123,820.9364	
Easting (SFT)	1,196,713.3185	
Elevation (SFT)*		

Convergence Angle	0	13	25.4548351
Scale Factor			1.000061399
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	40	22.4062608
Longitude	92	23	4.1829216
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90600001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600002	7/27/2002	AHTD	PULASKI	338	60209, OFFICE

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	622,578.5109	
Easting (M)	365,032.0380	
Elevation (M)*		
Northing (SFT)	2,042,576.3312	
Easting (SFT)	1,197,609.2780	
Elevation (SFT)*		

Convergence Angle	0	12	48.7723415
Scale Factor	0.999980421		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	40	22.1610180
Longitude	92	22	53.5664352
Ellipsoid Height (M):	65.325		
Geoid Height (M):	-26.390		

Location Description

THE STATION IS LOCATED NEAR THE EAST EDGE OF THE DRIVEWAY LEADING TO THE MAIL ROOM AT THE REAR OF THE OFFICES OF THE ARKANSAS HIGHWAY DEPARTMENT. 27 FEET SOUTH OF THE PERIMETER ROAD AROUND THESE OFFICES. 7.90 FEET NORTH OF THE NORTH EDGE OF A CONCRETE DITCH AND 39.50 FEET NORTH OF THE CENTER OF A WALKING TRAIL. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "90600002".

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	STOP SIGN	280	1.43	4.7
MK # 2				
MK # 3				

AZ Mark Station	90600003
Geodetic Azimuth	123 38 01
Grid Azimuth	123 50 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SALIPORT

Comments

OLD PN = 90600002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600003	7/27/2002	AHTD	PULASKI	338	60209, OFFICE

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	622,403.4559
Easting (M)	365,293.0670
Elevation (M)*	
Northing (SFT)	2,042,002.0049
Easting (SFT)	1,198,465.6706
Elevation (SFT)*	
Convergence Angle	0 12 43.0194236
Scale Factor	0.999980117
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	40	16.5115920
Longitude	92	22	43.2876900
Ellipsoid Height (M):	61.044		
Geoid Height (M):	-26.386		

Location Description

THE STATION IS LOCATED EAST ALONG THE NORTH FRONTAGE ROAD OF I-30 FROM THE ARKANSAS HIGHWAY DEPARTMENT MAIN BUILDING, 6.0ft. SOUTH OF THE CHAIN LINK FENCE SURROUNDING THE RADIO SHOP. 42 FEET WEST OF THE CONCRETE DRIVEWAY LEADING INTO A QUICK MART. 39 FEET NORTH OF THE CENTER OF THE FRONTAGE ROAD AND 2.8 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "90600003".

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	108	4.24	13.9
MK # 2	TELEPHONE RISER	250	2.44	8.0
MK # 3				

AZ Mark Station	90600002
Geodetic Azimuth	303 38 07
Grid Azimuth	303 50 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SALIPORT

Comments

OLD PN = 90600003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600004	3/28/1990	AHTD	PULASKI	338	OFFICE

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	37,358.6208	
Easting (M)	364,807.6290	
Elevation (M)*		
Northing (SFT)	122,567.4084	
Easting (SFT)	1,196,873.0295	
Elevation (SFT)*		

Convergence Angle	0	13	24.3081864
Scale Factor			1.000062347
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	40	10.0143228
Longitude	92	23	2.2123932
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Old point number 90600004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600007	3/23/1990	AHTD	PULASKI	5	6965

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	626,809.3030	
Easting (M)	366,192.7580	
Elevation (M)*		
Northing (SFT)	2,056,456.8549	
Easting (SFT)	1,201,417.4069	
Elevation (SFT)*		

Convergence Angle	0	12	23.5893978
Scale Factor	0.999988063		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	42	39.5957016
Longitude	92	22	8.5720404
Ellipsoid Height (M):			
Geoid Height (M):	-27.503		

Location Description

THE STATION IS 15 FEET WEST OF THE CENTERLINE OF COBB STREET, 110 FEET NORTH OF THE CENTERLINE OF ASHER AVE., 3.5 FEET EAST OF THE EDGE OF A SIDEWALK AND 13 FEET NORTH OF THE 1ST DRIVE ON THE LEFT SIDE OF COBB STREET.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN CENTER OF SS MANHOLE COVER	9	24.97	81.9
MK # 2	NBC IN COMBINATION POLE	153	20.26	66.5
MK # 3	NBC IN 10" SWEET GUM	183	24.48	80.3

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	PAGIS 1004
Ref Mon # 2	PAGIS 1006
Ref Mon # 3	PAGIS 1007

Comments

Old point number 90600007

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600009	5/29/1990	AHTD	PULASKI	365	60517

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	51,586.3839	
Easting (M)	374,164.7590	
Elevation (M)*		

Northing (SFT)	169,246.3278	
Easting (SFT)	1,227,572.2135	
Elevation (SFT)*		

Convergence Angle	0	9	51.3882409
Scale Factor			1.000029368
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	47	52.7264340
Longitude	92	16	56.3071440
Ellipsoid Height (M):			
Geoid Height (M):	-27.650		

Location Description

THE STATION IS NORTHWEST OF THE INTERSECTION OF 47TH AND DIVISION STREETS IN NORTH LITTLE ROCK BETWEEN POWER SUB STATION AND THE INTERSECTION.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	285	6.37	20.9
MK # 2	NBC IN COMBINATION POLE	67	6.35	20.8
MK # 3	NBC IN COMBINATION POLE	152	5.70	18.7

AZ Mark Station	90600010
Geodetic Azimuth	2 49 07
Grid Azimuth	2 58 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	TIE
Ref Mon # 2	PAGIS 1004
Ref Mon # 3	PAGIS 1005

Comments

Old point number 90600009

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600010	5/29/1990	AHTD	PULASKI	365	60517

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	51,685.0980	
Easting (M)	374,169.9030	
Elevation (M)*		
Northing (SFT)	169,570.1924	
Easting (SFT)	1,227,589.0901	
Elevation (SFT)*		

Convergence Angle	0	9	51.2769695
Scale Factor	1.000029157		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	47	55.9301640	
Longitude	92	16	56.1159228	
Ellipsoid Height (M):				
Geoid Height (M):	-27.652			

Location Description

FROM JCT. OF 47TH STREET IN NORTH LITTLE ROCK, GO NORTH 330 FEET ON DIVISION STREET. THE STATION IS 40 FEET WEST OF THE CENTERLINE OF DIVISION STREET, 75 FEET NORTH AND 27 FEET EAST OF THE NORTHEAST CORNER OF THE POWER SUB STATION AND IS ACROSS THE STREET FROM THE 4TH HOUSE FROM THE JCT. OF 47TH AND DIVISION STREETS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	163	16.67	54.7
MK # 2	NBC IN COMBINATION POLE	175	16.08	52.7
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90600009
Geodetic Azimuth	182 49 07
Grid Azimuth	182 58 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	TIE
Ref Mon # 2	PAGIS 1004
Ref Mon # 3	PAGIS 1005

Comments

Old point number 90600010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600011	5/29/1990	AHTD	PULASKI	107	60517

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	51,604.1680	
Easting (M)	375,971.4870	
Elevation (M)*		
Northing (SFT)	169,304.6745	
Easting (SFT)	1,233,499.7869	
Elevation (SFT)*		

Convergence Angle	0	9	10.0321580
Scale Factor	1.000029320		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	47	53.4657408
Longitude	92	15	45.2362644
Ellipsoid Height (M):			
Geoid Height (M):	-27.637		

Location Description

THE STATION IS ON MC CAIN BLVD. IN NORTH LITTLE ROCK NORTH OF HIGH HILL ROAD, 18 FEET WEST OF THE CENTERLINE OF THE NORTHBOUND LANES, 17 FEET EAST OF THE CENTERLINE OF THE SOUTH BOUND LANES AND 81 FEET NORTH OF A BREAK IN THE MEDIAN ACROSS THE SOUTH LANES FROM THE FOOTBALL FIELD.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 4" CRAPE MYRTLE	14	18.04	59.2
MK # 2	NBC IN 4" CRAPE MYRTLE	196	8.21	26.9
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90600012
Geodetic Azimuth	23 08 08
Grid Azimuth	23 17 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	TIE
Ref Mon # 2	PAGIS 1004
Ref Mon # 3	PAGIS 1005

Comments

OLD PN:90600011. THE 2 1/2" STANDARD ALUMINUM DISK WAS REMOVED BY THE RESIDENT ENGINEER'S OFFICE AND THE 3/4" REBAR DRIVEN DOWN AND LEFT IN PLACE. SINCE THE MONUMENT WAS DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600012	5/29/1990	AHTD	PULASKI	107	60517

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	51,797.6889	
Easting (M)	376,054.7830	
Elevation (M)*		
Northing (SFT)	169,939.5843	
Easting (SFT)	1,233,773.0672	
Elevation (SFT)*		

Convergence Angle	0	9	8.1372252
Scale Factor			1.000028906
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	47	59.7526548	
Longitude	92	15	41.9798016	
Ellipsoid Height (M):				
Geoid Height (M):	-27.640			

Location Description

THE STATION IS ON MC CAIN BLVD. IN NORTH LITTLE ROCK, 18 FEET EAST OF THE NORTHBOUND LANES, 17 FEET WEST OF THE SOUTHBOUND LANES AND 94 FEET FROM A BREAK IN THE MEDIAN THAT ALLOWS TURNS ONTO VELVET RIDGE ROAD ACROSS FROM THE TENNIS COURTS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90600011
Geodetic Azimuth	203 08 10
Grid Azimuth	203 17 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	TIE
Ref Mon # 2	PAGIS 1004
Ref Mon # 3	PAGIS 1005

Comments

Old point number 90600012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600013	2/22/1993	AHTD	PULASKI	430	060110,061190,012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	53,339.2419	
Easting (M)	367,686.0960	
Elevation (M)*	83.535	
Northing (SFT)	174,997.1628	
Easting (SFT)	1,206,316.8000	
Elevation (SFT)*	274.064	

Convergence Angle	0	12	19.8325203
Scale Factor	1.000025701		
Elevation Adjust. Factor	0.9999868908		
Combined Adjust. Factor	1.0000125915		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	48	48.9278844
Longitude	92	21	11.4102576
Ellipsoid Height (M):	56.762		
Geoid Height (M):	-26.808		

Location Description

FROM THE ARKANSAS RIVER BRIDGE ON I-430, GO NORTH ON I-430 1.13 MILES TO THE STATION ON THE LEFT. THE STATION IS BY THE BRIDGES OVER WHITE OAK CREEK IN THE CENTER OF THE MEDIAN AND 21.60 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	'X' CUT IN TOP OF CONCRETE POST	348	4.95	16.2
MK # 2	'X' CUT IN TOP OF CONCRETE POST	60	12.16	39.9
MK # 3	PUNCH POINT IN TOP GUARD RAIL POST	165	6.59	21.6

AZ Mark Station	93600013A
Geodetic Azimuth	224 02 15
Grid Azimuth	224 14 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

3-Wire Levels ran by crew S5104 from NGS Marks J 290 & K 290 on 2-21-07 in job 061190.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600013A Reset	8/18/2003	AHTD	PULASKI	I 430	360117,061190,R60101,01211

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	53,050.8940	
Easting (M)	367,480.5510	
Elevation (M)*	89.592	
Northing (SFT)	174,051.1414	
Easting (SFT)	1,205,642.4411	
Elevation (SFT)*	293.936	

Convergence Angle	0	12	24.5146378
Scale Factor	1.000026308		
Elevation Adjust. Factor	0.9999859403		
Combined Adjust. Factor	1.0000122479		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	48	39.5470656
Longitude	92	21	19.4565276
Ellipsoid Height (M):	62.830		
Geoid Height (M):	-26.800		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 430 AND THE OVERPASS OF STATE HIGHWAY 100, IN NORTH LITTLE ROCK, GO NORTH ON I 430 0.05 MILES TO THE STATION ON THE RIGHT, LOCATED IN THE TRIANGLE FORMED BY I 430, HIGHWAY 100 AND THE ENTRANCE RAMP FROM HIGHWAY 100 ONTO I 430, AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 93600013A RESET" ON TOP OF A 0.52 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	3" SWEET GUM	232	8.30	27.2
MK # 2				
MK # 3				

AZ Mark Station	600013
Geodetic Azimuth	35 16 34
Grid Azimuth	35 28 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	600048
Ref Mon # 2	LROC
Ref Mon # 3	600062

Comments

3-Wire Levels ran by crew S5104 from NGS Marks J 290 & K 290 on 2-21-07 in job 061190.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600014	12/18/2003	AHTD	PULASKI	N/A	060110, r60101

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	56,511.3410	
Easting (M)	373,191.1920	
Elevation (M)*	159.940	
Northing (SFT)	185,404.2913	
Easting (SFT)	1,224,378.1024	
Elevation (SFT)*	524.736	

Convergence Angle	0	10	14.0093891
Scale Factor	1.000019136		
Elevation Adjust. Factor	0.9999749008		
Combined Adjust. Factor	0.9999940363		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	50	32.4482064
Longitude	92	17	35.1818340
Ellipsoid Height (M):	133.084		
Geoid Height (M):	-26.856		

Location Description

FROM THE JCT. OF 16TH AND "H" STREETS ON CAMP ROBINSON, GO LEFT ON "H" AVENUE (GRAVEL) 0.30 MILES TO A DIRT ROAD ON THE RIGHT, TURN RIGHT AND GO NORTH FOR 0.20 MILES TO THE STATION ON THE RIGHT AND 2.68 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 10" OAK	18	43.70	143.4
MK # 2	NBC IN 12" PINE	132	36.14	118.6
MK # 3	NBC IN 12" OAK	294	36.89	121.0

AZ Mark Station	93600014A
Geodetic Azimuth	112 55 54
Grid Azimuth	113 06 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	600048
Ref Mon # 2	ROCKPORT, 600050
Ref Mon # 3	600046

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600014A	2/22/1993	AHTD	PULASKI	N/A	060110

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	56,424.7790	
Easting (M)	373,394.1110	
Elevation (M)*	154.692	
Northing (SFT)	185,120.2958	
Easting (SFT)	1,225,043.8458	
Elevation (SFT)*	507.519	

Convergence Angle	0	10	9.3560505
Scale Factor	1.000019310		
Elevation Adjust. Factor	0.9999757244		
Combined Adjust. Factor	0.9999950339		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	50	29.6588076
Longitude	92	17	27.1850208
Ellipsoid Height (M):	127.950		
Geoid Height (M):	-26.851		

Location Description

FROM THE JCT. OF CATO ROAD AND 16TH STREET ON CAMP ROBINSON, GO NORTH ON A GRAVEL ROAD FOR 0.22 MILES TO A DIRT ROAD ON THE LEFT, GO LEFT FOR 0.16 MILES TO THE STATION 135 FEET LEFT ON A HIGH MOUND OF DIRT AND 2.4 FEET WEST OF WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 16" PINE	285	77.58	254.5
MK # 2	NBC IN 12" PINE	319	108.21	355.0
MK # 3	NBC IN 12" OAK	338	67.23	220.6

AZ Mark Station	93600014
Geodetic Azimuth	292 55 59
Grid Azimuth	293 06 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	600046
Ref Mon # 2	ROCKPORT, 600050
Ref Mon # 3	600048

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600015	2/22/1993	AHTD	PULASKI	107	060110, R60101

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	57,656.1510	
Easting (M)	378,033.6590	
Elevation (M)*	159.878	
Northing (SFT)	189,160.2221	
Easting (SFT)	1,240,265.4296	
Elevation (SFT)*	524.533	

Convergence Angle	0	8	23.1655063
Scale Factor	1.000016815		
Elevation Adjust. Factor	0.9999749106		
Combined Adjust. Factor	0.9999917251		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	51	10.0227456
Longitude	92	14	24.6954120
Ellipsoid Height (M):	133.012		
Geoid Height (M):	-26.863		

Location Description

FROM THE PARKING LOT AT THE KEVIN MC REYNOLDS BASEBALL PARK IN SHERWOOD, GO TO THE NORTHWEST CORNER OF THE LOT TO A DIRT ROAD NORTH, GO 0.13 MILES TO THE STATION ON THE LEFT AND 3.0 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 3" PINE	65	23.59	77.4
MK # 2	NBC IN 3" PINE	112	25.91	85.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	93600015A
Geodetic Azimuth	139 24 47
Grid Azimuth	139 33 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	600046
Ref Mon # 2	ROCKPORT, 600050
Ref Mon # 3	600048

Comments

3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600015A	2/22/1993	AHTD	PULASKI	107	060110, R60101

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	57,482.5220	
Easting (M)	378,181.6740	
Elevation (M)*	158.747	
Northing (SFT)	188,590.5743	
Easting (SFT)	1,240,751.0421	
Elevation (SFT)*	520.824	

Convergence Angle	0	8	19.7654205
Scale Factor	1.000017160		
Elevation Adjust. Factor	0.9999750880		
Combined Adjust. Factor	0.9999922475		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	51	4.4001720
Longitude	92	14	18.8523276
Ellipsoid Height (M):	131.881		
Geoid Height (M):	-26.857		

Location Description

FROM THE ENTRANCE TO THE KEVIN MC REYNOLDS BALL PARK IN SHERWOOD, GO WEST INTO THE PARKING LOT FOR 0.15 MILES TO THE STATION ON THE LEFT AND 1.02 FEET FROM OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	145	23.35	76.6
MK # 2	NBC IN LIGHT POLE	223	56.82	186.4
MK # 3	NBC IN 16" HICKORY	335	44.50	146.0

AZ Mark Station	93600015
Geodetic Azimuth	319 24 51
Grid Azimuth	319 33 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	600046
Ref Mon # 2	ROCKPORT, 600050
Ref Mon # 3	600048

Comments

3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600017	9/1/1993	AHTD	PULASKI	30	60209

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	621,622.0799
Easting (M)	363,684.5330
Elevation (M)*	90.416
Northing (SFT)	2,039,438.4405
Easting (SFT)	1,193,188.3387
Elevation (SFT)*	296.640
Convergence Angle	0 13 18.3156326
Scale Factor	0.999978748
Elevation Adjust. Factor	0.9999858110
Combined Adjust. Factor	0.9999645593

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 39 50.9567976
Longitude	92 23 46.3514676
Ellipsoid Height (M):	63.005
Geoid Height (M):	-27.411

Location Description

FROM THE INTERSECTION OF I-30 AND EXIT 130 JUST SOUTH OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICES, TAKE THE SOUTH SERVICE ROAD AND GO SOUTHWEST FOR 1.28 KM (0.80 MILES) TO SIBLEY HOLE ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS 13.14 METERS SOUTHEAST OF THE EDGE OF THE EAST BOUND CONCRETE LANES, 6.35 METERS NORTHWESTOF THE CENTERLINE OF THE SERVICE ROAD, 26.25 METERS WEST OF THE JUNCTION OF THE SERVICE ROAD AND SIBLEY HOLE ROAD AND19.0 METERS NORTHWEST OF A WITNESS POST JUST IN FRONT OF A CHAIN LINK FENCE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF DROP INLET	50	14.02	46.0
MK # 2	NBC IN POWER POLE	103	32.34	106.1
MK # 3	CENTER OF TOP OF CONCRETE R/W MARK FR	140	19.51	64.0

AZ Mark Station	9360017A AZ. MK.
Geodetic Azimuth	65 57 15.00955
Grid Azimuth	66 10 33.434520

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	93600016 AHTD GPS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600017A	9/1/1993	AHTD	PULASKI	30	60209

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	621,893.0920	
Easting (M)	364,298.3020	
Elevation (M)*	88.239	
Northing (SFT)	2,040,327.5860	
Easting (SFT)	1,195,202.0125	
Elevation (SFT)*	289.497	

Convergence Angle	0	13	4.8460722
Scale Factor			0.999979221
Elevation Adjust. Factor			0.9999861526
Combined Adjust. Factor			0.9999653739

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	39	59.8281300
Longitude	92	23	22.2853884
Ellipsoid Height (M):	60.829		
Geoid Height (M):	-27.410		

Location Description

FROM THE INTERSECTION OF I-30 AND EXIT 130 JUST SOUTH OF THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICES, TAKE THE SOUTH SERVICE ROAD AND GO 0.61 KM (0.38 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.14 METERS SOUTHEAST OF THE EDGE OF THE EASTBOUND CONCRETE LANES, 5.10 METERS NORTHWEST OF THE CENTERLINE OF THE SERVICE ROAD AND 16.00 METERS NORTHWEST OF A WITNESS POST JUST IN FRONT OF A CHAIN LINK FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PAGIS POINT #2049	223	47.29	155.2
MK # 2	NBC IN COMBINATION POLE	86	39.07	128.2
MK # 3	6" PIPE GATE POST	105	24.15	79.2

AZ Mark Station	93600017
Geodetic Azimuth	245 57 28.69793
Grid Azimuth	246 10 33.43452

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	93600016 AHTD GPS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600020	6/8/1994	AHTD	PULASKI	176	B60117, 60620,061348

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	52,160.9518
Easting (M)	375,644.3030
Elevation (M)*	98.431
Northing (SFT)	171,131.3894
Easting (SFT)	1,232,426.3508
Elevation (SFT)*	322.937

Convergence Angle	0	9	17.5560810
Scale Factor			1.000028135
Elevation Adjust. Factor			0.9999845531
Combined Adjust. Factor			1.0000126877

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	48	11.5184016
Longitude	92	15	58.1524020
Ellipsoid Height:			70.808
Grid Northing (Meters)			52,161.3709
Grid Easting (Meters)			375,644.6550

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	48	11.5047720
Longitude	92	15	58.1662080
Ellipsoid Height (M):	71.647		
Geoid Height (M):	-26.707		

Location Description

FROM THE JCT. OF HWY. 176 (CAMP ROBINSON ROAD) AND 47 TH STREET IN NORTH LITTLE ROCK, GO NORTH ON HWY. 176 FOR 0.70 KM (0.43 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS EAST OF THE CENTERLINE OF HWY. 176, 59.0 METERS NORTH OF THE CENTER OF EAST 52ND STREET, 19.3 METERS SOUTH OF A CONCRETE DRIVEWAY AND 2.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600020" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 3 CM BELOW THE SURFACE OF AN ASPHALT PARKING LOT.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN LIGHT POLE	284	3.10	10.2
MK # 2	NBC IN COMBINATION POLE	319	23.70	77.8
MK # 3	NONE			

AZ Mark Station	72(600020A DESTROYED)
Geodetic Azimuth	206 17 01.28785
Grid Azimuth	206 26 18.89981

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	ADAMS 2
Ref Mon # 3	93600013

Comments

OLD ELEV. 98.460 m, Cross Reference Job: 060655
**********NEW ELEV. BASED ON DIGITAL LEVELS BY S5112 IN FEB. 2016 FOR SHILCOTTS BAYOU STR. & APPRS. ELEV. RAN FROM TBM 905 FROM JOB #061348. S5112 RAN BETWEEN G 290 & 905 TO VERIFY 905 ELEV.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600021	6/8/1994	AHTD	PULASKI	I-40	B60117, 60620

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	50,127.0679	
Easting (M)	374,725.4310	
Elevation (M)*	105.406	
Northing (SFT)	164,458.5553	
Easting (SFT)	1,229,411.6849	
Elevation (SFT)*	345.820	

Convergence Angle	0	9	38.4604203
Scale Factor	1.000032512		
Elevation Adjust. Factor	0.9999834586		
Combined Adjust. Factor	1.0000159701		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	34	47	5.4235356	
Longitude	92	16	34.0905432	
Ellipsoid Height (M):	77.794			
Geoid Height (M):	-27.612			

Location Description

FROM THE LEVY EXIT (NO. 152) ON I-40 IN NORTH LITTLE ROCK, GO WEST ON I-40 FOR 0.483 KM (0.30 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 21.05 METERS NORTHEAST OF THE NORTH EDGE OF THE WESTBOUND LANE OF I-40 AND 0.60 METERS SOUTH OF A WITNESS POST.THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600021" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"X" CUT IN CONCRETE GUARD RAIL POST	233	18.27	59.9
MK # 2	"X" CUT IN CONCRETE GUARD RAIL POST	266	31.16	102.2
MK # 3	"X" CUT IN CONCRETE GUARD RAIL POST	251	22.36	73.4

AZ Mark Station	600021A
Geodetic Azimuth	293 58 01.30704
Grid Azimuth	294 07 39.83918

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	ADAMS 2
Ref Mon # 3	93600013

Comments

Cross Reference Job: 060655

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600021A	6/8/1994	AHTD	PULASKI	I-40	60620

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	50,270.2179	
Easting (M)	374,405.8280	
Elevation (M)*	102.511	
Northing (SFT)	164,928.2066	
Easting (SFT)	1,228,363.1207	
Elevation (SFT)*	336.322	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	34	47	10.0394520	
Longitude	92	16	46.6769784	
Ellipsoid Height (M):	74.893			
Geoid Height (M):	-27.618			

Convergence Angle	0	9	45.7844559	
Scale Factor	1.000032203			
Elevation Adjust. Factor	0.9999839129			
Combined Adjust. Factor	1.0000161154			

Location Description

FROM THE LEVY EXIT (NO. 152) ON I-40 IN NORTH LITTLE ROCK, GO WEST ON I-40 FOR 0.83 KM (0.52 MILES) TO THE STATION ON THE LEFT. THE STATION IS IN THE MEDIAN ON THE WEST END OF THE OVERPASS OVER HWY. 176 (CAMP ROBINSON ROAD) AND HWY. 365, 3.95 METERS NORTHEAST OF THE NORTH EDGE OF THE EASTBOUND CONCRETE LANES AND ??? METERS ????????? OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600021A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN BRIDGE END	328	10.74	35.2
MK # 2	"X" CUT IN BRIDGE END	133	4.24	13.9
MK # 3	"X" CUT IN CONCRETE GUARD RAIL POST	265	5.96	19.6

AZ Mark Station	600021
Geodetic Azimuth	113 57 54.12642
Grid Azimuth	114 07 39.83918

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	ADAMS 2
Ref Mon # 3	93600013

Comments

Cross Reference Job: 060655 / Error in Desc. NEED DISTANCE AND DIRECTION TO WITNESS POST (ON DESCRIPTION FORM).

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600022	9/19/1994	AHTD	PULASKI	100	60536,012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	60,658.4440	
Easting (M)	364,033.1990	
Elevation (M)*	84.058	
Northing (SFT)	199,010.2450	
Easting (SFT)	1,194,332.2537	
Elevation (SFT)*	275.780	

Convergence Angle	0	13	44.1349374
Scale Factor	1.000011036		
Elevation Adjust. Factor	0.9999868087		
Combined Adjust. Factor	0.9999978446		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	52	45.9851448
Longitude	92	23	36.2848812
Ellipsoid Height (M):	56.099		
Geoid Height (M):	-27.959		

Location Description

FROM THE JCT. OF HWY. 365 AND HWY. 100 WEST OF MORGAN, GO SOUTH ON HWY. 100 FOR 0.386 KM (0.24 MILES) TO A RAILROAD CROSSING. CONTINUE AHEAD FOR 0.08 KM (0.05 MILES) TO THE STATION ON THE LEFT IN THE MEDIAN BETWEEN THE LANES. THE STATION 13.7 METERS EAST OF THE WESTBOUND LANE, 9.70 METERS WEST OF THE EASTBOUND LANE AND 0.50 METERS NORTH-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600023" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	86	10.35	34.0
MK # 2	CENTER OF A MANHOLE	355	26.55	87.1
MK # 3	NONE			

AZ Mark Station	600022A
Geodetic Azimuth	9 54 58.72084
Grid Azimuth	10 08 42.83885

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALTILLO
Ref Mon # 2	ROCKPORT
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600022A	9/19/1994	AHTD	PULASKI	365	061097, 60536,012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	61,147.7670
Easting (M)	364,120.5890
Elevation (M)*	85.501
Northing (SFT)	200,615.6322
Easting (SFT)	1,194,618.9657
Elevation (SFT)*	280.514

Convergence Angle	0	13	42.1772181
Scale Factor			1.000010099
Elevation Adjust. Factor			0.9999865823
Combined Adjust. Factor			0.9999966812

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	53	1.8749148
Longitude	92	23	32.9205192
Ellipsoid Height (M):	58.342		
Geoid Height (M):	-27.136		

Location Description

THE STATION IS LOCATED AT THE JCT. OF HWY. 365 AND HWY. 100 WEST OF MORGAN NEAR THE SOUTH EDGE OF A PARKING LOT OWNED BY "COST PLUS QUALITY FOODS". THE STATION IS 11.65 METERS NORTH OF THE CENTERLINE OF HWY. 365, 7.0 METERS SOUTH OF THE SOUTH EDGE OF THE PARKING LOT, 20.15 METERS WEST OF AN ENTRANCE TO THE PARKING LOT, 30.70 METERS EAST OF AN ENTRANCE TO THE PARKING LOT AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600022A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	METAL SIGN POST	329	9.30	30.5
MK # 2	COMBINATION POLE	99	25.90	85.0
MK # 3	LAMP POST IN PARKING LOT	0	25.50	83.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	BUTLER
Ref Mon # 3	AHTD LROC

Comments

3-Wire Levels ran by crew S5103 from NGS mark P 290 on 04-16-03 in job 061097.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600023	9/19/1994	AHTD	PULASKI	365	061097, 60536,012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	61,372.0810	
Easting (M)	365,503.1910	
Elevation (M)*	83.695	
Northing (SFT)	201,351.5691	
Easting (SFT)	1,199,155.0525	
Elevation (SFT)*	274.589	

Convergence Angle	0	13	10.5148881
Scale Factor	1.000009662		
Elevation Adjust. Factor	0.9999868657		
Combined Adjust. Factor	0.9999965276		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	53	9.3292620
Longitude	92	22	38.5084596
Ellipsoid Height (M):	56.567		
Geoid Height (M):	-27.125		

Location Description

FROM THE JCT. OF HWY. 365 AND HWY. 100 WEST OF MORGAN, GO EAST ON HWY. 365 FOR 1.207 KM (0.75 MILES) TO AN OVERPASS CROSSING INTERSTATE 40. CONTINUE EAST ON HWY. 365 PASSING THROUGH A TRAFFIC SIGNAL LIGHT FOR 0.322 KM (0.20 MILES) TO A GRAVEL PARKING AREA ON THE RIGHT. TURN RIGHT INTO THE PARKING AREA AND FOLLOW THE RIGHT OF WAY FENCE ON THE EAST EDGE OF THE GRAVEL PARKING LOT IN A SOUTHERLY DIRECTION FOR ABOUT 60 METERS TO A PIPE BRACE POST IN THE FENCE AND THE STATION. THE STATION IS 1.0 METERS WEST OF THE FENCE LINE AND 0.75 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600023" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	10	36.70	120.4
MK # 2	POWER POLE	170	9.00	29.5
MK # 3	SOUTHWEST CORNER OF PARKING LOT	93	26.55	87.1

AZ Mark Station	600023A
Geodetic Azimuth	213 33 27
Grid Azimuth	213 46 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	BUTLER
Ref Mon # 3	AHTD LROC

Comments

3 Wire Levels ran by crew s5103 from NGS mark P 290 on 04-21-03 in job 061097.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600023A RESET	4/7/2003	AHTD	PULASKI	N/A	061097, 60536,012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	61,127.9640
Easting (M)	365,339.9090
Elevation (M)*	83.062
Northing (SFT)	200,550.6619
Easting (SFT)	1,198,619.3514
Elevation (SFT)*	272.513
Convergence Angle	0 13 14.2350146
Scale Factor	1.000010128
Elevation Adjust. Factor	0.9999869650
Combined Adjust. Factor	0.9999970929

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 53 1.3873452
Longitude	92 22 44.9015376
Ellipsoid Height (M):	55.916
Geoid Height (M):	-27.118

Location Description

FROM THE JCT. OF HWY. 365 AND 100 WEST O MORGAN, GO EAST ON HWY 365 FOR 0.65 MILES TO THE JCT. WITH "LONG FISHER ROAD" ON THE RIGHT, TURN RIGHT AND GO 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.3 METERS NORTH OF THE CENTERLINE OF THE ROAD AND 3.0 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600023AA RESET 2003" ON TOPOF A 1.22 METR IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	184	18.30	60.0
MK # 2	12" GUM TREE	147	29.30	96.1
MK # 3	CABLE ANCHOR POST	175	19.40	63.6

AZ Mark Station	600023
Geodetic Azimuth	33 33 24
Grid Azimuth	33 46 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	BUTLER
Ref Mon # 3	AHTD LROC

Comments

3-Wire levels ran by crew s5103 from NGS mark P 290 on 04-21-03 in job 061097.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600024	10/6/1994	AHTD	PULASKI	I-40	R60138

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	49,444.1310	
Easting (M)	381,338.8720	
Elevation (M)*	83.153	
Northing (SFT)	162,217.9531	
Easting (SFT)	1,251,109.2826	
Elevation (SFT)*	272.811	

Convergence Angle	0	7	7.0663865
Scale Factor	1.000033968		
Elevation Adjust. Factor	0.9999869508		
Combined Adjust. Factor	1.0000209183		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	46	43.7854620
Longitude	92	12	13.9182444
Ellipsoid Height (M):	55.598		
Geoid Height (M):	-27.555		

Location Description

THE STATION IS LOCATED ON INTERSTATE 40 IN THE MEDIAN AT THE WEST END OF THE I-40 OVERPASS CROSSING HWY. 161 AT PROTHO JUNCTION IN THE EASTERN PART OF NORTH LITTLE ROCK. FROM THE JCT. OF I-40 AND HWY. 67-167, GO EAST ON I-40 FOR 3.0 KM (1.87 MILES) TO THE STATION ON THE LEFT. THE STATION IS 4.40 METERS NORTH OF THE NORTH EDGE OF THE EASTBOUND LANES, 13.0 METERS SOUTH OF THE SOUTHEAST CONCRETE WINGWALL OF THE WESTBOUND BRIDGE AND 2.65 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600024" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN BACKWALL FOOTING	125	4.88	16.0
MK # 2	"X" CUT IN WING WALL	230	3.70	12.1
MK # 3	"X" CUT IN BACKWALL FOOTING	332	15.67	51.4

AZ Mark Station	600024A
Geodetic Azimuth	277 27 27.70718
Grid Azimuth	277 34 34.89678

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600024A	10/6/1994	AHTD	PULASKI	I-40	R60138

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	49,516.6619	
Easting (M)	380,793.5630	
Elevation (M)*	84.780	
Northing (SFT)	162,455.9149	
Easting (SFT)	1,249,320.2146	
Elevation (SFT)*	278.149	

Convergence Angle	0	7	19.5494732
Scale Factor	1.000033811		
Elevation Adjust. Factor	0.9999866954		
Combined Adjust. Factor	1.0000205060		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	46	46.1019036
Longitude	92	12	35.3705652
Ellipsoid Height (M):	57.221		
Geoid Height (M):	-27.559		

Location Description

FROM THE JCT. OF I-40 AND HWY. 67-167 IN NORTH LITTLE ROCK, GO EAST ON I-40 FOR 2.46 KM (1.53 MILES) TO THE STATION ON THE LEFT IN THE MEDIAN. THE STATION IS ON THE EAST END OF THE BRIDGE OVER THE MISSOURI PACIFIC RAILROAD, 4.40 METERS SOUTH OF THE SOUTH EDGE OF THE WESTBOUND LANES, 14.00 METERS NORTH OF THE NORTH EDGE OF THE EASTBOUND LANES AND 1.91 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/" ALUMINUM CAP STAMPED "600024A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN END OF WINGWALL	77	8.36	27.4
MK # 2	"X" CUT IN BACKWALL FOOTING	3	2.05	6.7
MK # 3	"X" CUT IIN BACKWALL FOOTING	227	13.75	45.1

AZ Mark Station	600024
Geodetic Azimuth	97 27 15.470468
Grid Azimuth	97 34 34.89678

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600025	9/21/1998	AHTD	PULASKI	I-40	61117,060979,R60080,R6013

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	49,404.1120
Easting (M)	379,201.3840
Elevation (M)*	87.563
Northing (SFT)	162,086.6575
Easting (SFT)	1,244,096.5407
Elevation (SFT)*	287.280

Convergence Angle	0	7	55.9812629
Scale Factor	1.000034066		
Elevation Adjust. Factor	0.9999862587		
Combined Adjust. Factor	1.0000203242		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	46	42.3350184
Longitude	92	13	37.9789932
Ellipsoid Height (M):	61.019		
Geoid Height (M):	-26.627		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND U.S. HIGHWAY 67-167, IN NORTH LITTLE ROCK, GO EAST ON I-40 FOR 0.853 KM (0.53 MI) TO THE STATION ON THE LEFT ON THE NORTHWEST END OF A HILL IN THE MEDIAN. THE STATION IS 28.95 METERS SOUTH OF THE SOUTH EDGE OF THE WESTBOUND LANES AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600025" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	0.15 METER ELM	88	18.16	59.6
MK # 2	0.30 METER PINE	105	37.74	123.8
MK # 3				

AZ Mark Station	600025A
Geodetic Azimuth	319 06 42.69912
Grid Azimuth	319 14 38.75352

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SEARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600025A	9/21/1998	AHTD	PULASKI	67-16	61117,060979,R60080,R6013

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	49,779.0190
Easting (M)	378,878.2760
Elevation (M)*	98.878
Northing (SFT)	163,316.6648
Easting (SFT)	1,243,036.4772
Elevation (SFT)*	324.402
Convergence Angle	0 8 3.3957473
Scale Factor	1.000033247
Elevation Adjust. Factor	0.9999844831
Combined Adjust. Factor	1.0000177295

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 46 54.4762920
Longitude	92 13 50.7208656
Ellipsoid Height (M):	72.324
Geoid Height (M):	-26.636

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND U.S. HIGHWAY 67-167, IN NORTH LITTLE ROCK, GO NORTH ON U.S. HIGHWAY 67-167 FOR 0.836 KM (0.52 MI) TO THE ON THE LEFT IN AN OLD BORROW AREA BETWEEN THE NORTH AND SOUTH BOUND LANES. THE STATION IS 42.18 METERS WEST OF U.S. HIGHWAY 67-167 NORTHBOUND LANES AND 0.60 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600025A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	600025
Geodetic Azimuth	139 06 35.43080
Grid Azimuth	139 14 38.75352

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SEARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600026A	9/28/1995	AHTD	PULASKI	N/A	060761,061261,061383

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	61,182.1856	
Easting (M)	390,195.6472	
Elevation (M)*	83.051	
Northing (SFT)	200,728.5539	
Easting (SFT)	1,280,166.8859	
Elevation (SFT)*	272.476	

Convergence Angle	0	3	44.6688443
Scale Factor			1.000009908
Elevation Adjust. Factor			0.9999869668
Combined Adjust. Factor			0.9999968747

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	53	5.1572148
Longitude	92	6	26.0778168
Ellipsoid Height:			55.343
Grid Northing (Meters)			61,182.7470
Grid Easting (Meters)			390,196.1060

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	53	5.1389801
Longitude	92	6	26.0958600
Ellipsoid Height (M):	56.149		
Geoid Height (M):	-26.913		

Location Description

FROM THE JCT. OF NORTH FIRST STREET, T.P. WHITE DRIVE AND VANDENBERG BLVD. IN JACKSONVILLE, GO SOUTH ON NORTH FIRST STREET FOR 0.241 KM (0.15 MILES) TO THE JCT. WITH J.P. WRIGHT LOOP ROAD AND THE STATION ON THE LEFT. THE STATION IS 12.60 METERS EAST OF THE CENTER OF NORTH FIRST STREET, 20.0 METERS NORTH OF THE CENTER OF J.P. WRIGHT LOOP ROAD AND 0.8 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600026A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. **********ELEV BY 3-WIRE USING TBM-1(AHTD JOB 060761). TBM-1 SET FROM TBM-6 (AHTD JOB 060590). TBM-6 SET FROM AHTD BM #600052 HWY. 67, SEC 10, LM 10.8 AND IS A DISK IN SE CRN OF DI LT OF N 1ST ST APPRX. 170 FT RT OF HWY 67-167. ELEV= 84.997 M(278.86 FT) NGVD2.*******Old Elev 83.1080 Meters*********

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MANHOLE	20	10.80	35.4
MK # 2	McDonald's Sign	115	7.70	25.3
MK # 3	Combination Pole	155	18.00	59.1

AZ Mark Station	600069
Geodetic Azimuth	25 06 42
Grid Azimuth	25 10 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	430017A, 430014, 430014A
Ref Mon # 3	430016, 430016A

Comments

PREVIOUS ELEV. (83.062 m) BY 3 wire levels reran by crew S5113 on Job R60081 in March of 05 from NGS RV 159. Updated elevation by digital levels by S5111 in June of 2011 from 1st Order NGS BM RV 152 to 1st Order NGS BM RV 135 UNDER P.E. JOB #061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600027	10/5/1995	AHTD	PULASKI	N\A	6905_3,061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	631,186.5041
Easting (M)	369,902.9383
Elevation (M)*	117.918
Northing (SFT)	2,070,817.7222
Easting (SFT)	1,213,589.8901
Elevation (SFT)*	386.869
Convergence Angle	0 11 2.2938082
Scale Factor	0.999996454
Elevation Adjust. Factor	0.9999814952
Combined Adjust. Factor	0.9999779492

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEIOD09
Latitude	34 45 2.0519280
Longitude	92 19 43.3211160
Ellipsoid Height (M):	91.251
Geoid Height (M):	-26.659

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	34 45 2.0658672
Longitude	92 19 43.3068636
Ellipsoid Height:	90.352
Grid Northing (Meters)	631,186.9325
Grid Easting (Meters)	369,903.3021

Location Description

FROM THE JCT. OF I-630 AND FAIR PARK BLVD. IN LITTLE ROCK, GO NORTH ON FAIR PARK BLVD. FOR 1.046 KM (0.65 MILES) TO THE JCT. WITH MARKHAM STREET, TURN RIGHT AND GO EAST ON MARKHAM STREET FOR 0.322 KM (0.20 MILES) TO THE JCT. WITH MONROE STREET, TURN RIGHT AND GO SOUTH ON MONROE STREET FOR 0.161 KM (0.10 MILES) TO A PARKING LOT ENTRANCE (FOR WAR MEMORIAL STADIUM PARKING LOT), TURN RIGHT INTO THE PARKING LOT AND GO 0.08 KM (0.05 MILES) TO THE STATION ON THE SOUTH EDGE OF THE PARKING LOT. THE STATION IS 19.30 METERS SOUTH OF THE NORTH EDGE OF THE PAVED PARKING AREA, 7.20 METERS NORTH OF THE SOUTH EDGE OF THE PAVED PARKING AREA AND 8.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600027 1995" SET ON TOP OF A 3/4" REBAR 0.610 METERS IN LENGTH THAT IS ENCASED IN CONCRETE AND FLUSH WITH THE PAVEMENT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	13" (0.33 M) PIN OAK TREE	123	26.05	85.5
MK # 2	9" (0.24 M) PIN OAK TREE	175	12.90	42.3
MK # 3	8" (0.21 M) PIN OAK TREE	266	26.20	86.0

AZ Mark Station	600027A
Geodetic Azimuth	193 38 09.5821
Grid Azimuth	193 49 38.1594

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2 1970
Ref Mon # 2	ROCKPORT 1990
Ref Mon # 3	PAGIS 1006

Comments

War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932. NOTE: 10/31/2001 POSSIBLY UNDER NEW PARKING LOT. NOT FOUND

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600027A	10/5/1995	AHTD	PULASKI	N\A	6905_3,061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	630,974.9708
Easting (M)	369,850.9040
Elevation (M)*	123.691
Northing (SFT)	2,070,123.7167
Easting (SFT)	1,213,419.1742
Elevation (SFT)*	405.810
Convergence Angle	0 11 3.4238572
Scale Factor	0.999996039
Elevation Adjust. Factor	0.9999805892
Combined Adjust. Factor	0.9999766283

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	44	55.1957964
Longitude	92	19	45.3260568
Ellipsoid Height:	96.129		
Grid Northing (Meters)	630,975.3944		
Grid Easting (Meters)	369,851.2644		

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD09		
Latitude	34	44	55.1820120
Longitude	92	19	45.3401760
Ellipsoid Height (M):	97.016		
Geoid Height (M):	-26.654		

Location Description

FROM THE JCT. OF I-630 AND FAIR PARK BLVD. IN LITTLE ROCK, GO NORTH ON FAIR PARK BLVD. FOR 1.046 KM (0.65 MILES) TO THE JCT. WITH MARKHAM STREET, TURN RIGHT AND GO EAST ON MARKHAM STREET FOR 0.322 KMLES (0.20 MILES) TO THE JCT. WITH MONROE STREET, TURN RIGHT AND GO SOUTH ON MONROE STREET FOR 0.322 KM (0.20 MILES) TO THE ENTRANCE OF THE WAR MEMORIAL FITNESS CENTER ON THE RIGHT, TURN RIGHT AND FOLLOW THE NORTHERN MOST DRIVE IN A WESTERLY DIRECTION FOR 0.161 KM (0.10 MILES) TO THE STATION ON THE LEFT IN THE SOUTH EDGE OF THE PAVEMENT. THE STATION IS 16.99 METERS SOUTH OF A 0.65mm POST OAK TREE, 6.75 METERS SOUTH OF THE NORTH EDGE OF A CURB AND 0.64 METERS NORTH OF THE SOUTH EDGE OF A CURB AND A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "600027A 1995" SET ON TOP OF A 3/4" REBAR 0.610 METERS IN LENGTH THAT IS ENCASED IN CONCRETE AND FLUSH WITH THE SURFACE OF THE PAVEMENT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	296	21.60	70.9
MK # 2	MANHOLE	50	10.40	34.1
MK # 3	MANHOLE	111	5.90	19.4

AZ Mark Station	600027
Geodetic Azimuth	13 38 08.43122
Grid Azimuth	13 49 38.1594

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2 1970
Ref Mon # 2	ROCKPORT 1990
Ref Mon # 3	PAGIS 1006

Comments

War Memorial Stadium THE ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NO. Y 10 1932.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600028	12/20/1995	AHTD	PULASKI	67	6905_4

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	44,094.6490	
Easting (M)	374,595.7960	
Elevation (M)*	106.700	
Northing (SFT)	144,667.1943	
Easting (SFT)	1,228,986.3740	
Elevation (SFT)*	350.065	

Convergence Angle	0	9	41.0384480
Scale Factor			1.000046074
Elevation Adjust. Factor			0.9999832556
Combined Adjust. Factor			1.0000293288

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	34	43	49.6615260	
Longitude	92	16	38.5209120	
Ellipsoid Height (M):	79.203			
Geoid Height (M):	-27.479			

Location Description

TO REACH THE STATION FROM THE CENTER OF THE BROADWAY ST. BRIDGE OVER I-630 IN LITTLE ROCK GO SOUTH ON BROADWAY FOR 0.97 KM. (0.60 MI.) TO THE JUNCTION WITH WEST 19th. STREET, TURN LEFT AND GO EAST ON WEST 19th. STREET FOR 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH SOUTH SPRING STREET AND THE STATION ON THE RIGHT. 11.40 METERS SOUTH OF WEST 19th. STREET, 6.35 METERS WEST OF THE CENTER OF SOUTH SPRING STREET, 0.72 METERS WEST OF THE BACK OF THE CONCRETE CURB AND 0.72 METERS EAST OF THE EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD CAP STAMPED "600028" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER POST	303	3.70	12.1
MK # 2	MANHOLE	6	2.25	7.4
MK # 3	MANHOLE	82	8.00	26.2

AZ Mark Station	600029
Geodetic Azimuth	7 58 41.40077
Grid Azimuth	8 08 22.4335

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	ADAMS 2
Ref Mon # 3	93600019

Comments

ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600029	12/20/1995	AHTD	PULASKI	67	6905_4

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	44,264.9700
Easting (M)	374,620.1560
Elevation (M)*	108.703
Northing (SFT)	145,225.9891
Easting (SFT)	1,229,066.2951
Elevation (SFT)*	356.636
Convergence Angle	0 9 40.4922591
Scale Factor	1.000045679
Elevation Adjust. Factor	0.9999829412
Combined Adjust. Factor	1.0000286195

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	34 43 55.1906040
Longitude	92 16 37.5822804
Ellipsoid Height (M):	81.220
Geoid Height (M):	-27.483

Location Description

TO REACH THE STATION FROM THE CENTER OF THE BROADWAY ST. BRIDGE OVER I-630 IN LITTLE ROCK GO SOUTH ON BROADWAY FOR 0.80 KM. (0.50 MI.) TO THE JUNCTION WITH WEST 18th. STREET, TURN LEFT AND GO EAST ON WEST 18th STREET FOR 0.08 KM (0.05 MI.) TO THE JUNCTION WITH SOUTH SPRING STREET AND THE STATION ON THE LEFT, 9.20 METERS NORTH OF THE CENTER OF WEST 18th STREET, 6.20 METERS EAST OF THE CENTER OF SOUTH SPRING STREET AND 0.75 METERS WEST OF THE WEST EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD CAP STAMPED "600029" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	183	15.60	51.2
MK # 2	LIGHT POLE	263	12.85	42.2
MK # 3	MANHOLE	334	14.20	46.6

AZ Mark Station	600028
Geodetic Azimuth	187 58 41.93554
Grid Azimuth	188 08 22.4335

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	ADAMS 2
Ref Mon # 3	93600019

Comments

ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600030	12/20/1995	AHTD	PULASKI	67	6905_4

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	44,107.7519	
Easting (M)	374,706.2150	
Elevation (M)*	104.533	
Northing (SFT)	144,710.1827	
Easting (SFT)	1,229,348.6404	
Elevation (SFT)*	342.955	

Convergence Angle	0	9	38.5138261
Scale Factor	1.000046043		
Elevation Adjust. Factor	0.9999835956		
Combined Adjust. Factor	1.0000296379		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	43	50.0967840
Longitude	92	16	34.1823216
Ellipsoid Height (M):	77.054		
Geoid Height (M):	-27.479		

Location Description

THE STATION IS LOCATED IN THE SOUTH LAWN AT THE GOVERNORS MANSION IN LITTLE ROCK.36 50 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A PAVED PARKING AREA, 24.80 METERS EAST OT THE SOUTHEAST CORNER OF A CONCRETE SIDEWALK, 19.50 METERS NORHT OF THE NORTH EDGE OF A CONCRETE DRIVE AND 7.57 METERS NORTHWEST OF A SPRINKLER HEAD. THE STATION MARK IS A STANDARD CAP STAMPED "600030" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SEWER MANHOLE	155	19.74	64.8
MK # 2	AP&L UTILITIES BOX	79	12.35	40.5
MK # 3	METAL LIGHT POLE WITH 3 CAMERAS	236	7.05	23.1

AZ Mark Station	600030A
Geodetic Azimuth	38 12 00.93067
Grid Azimuth	38 21 39.42886

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	ADAMS 2
Ref Mon # 3	93600019

Comments

ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600030A	12/20/1995	AHTD	PULASKI	67	6905_4

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	44,190.5569	
Easting (M)	374,771.7540	
Elevation (M)*	104.701	
Northing (SFT)	144,981.8521	
Easting (SFT)	1,229,563.6629	
Elevation (SFT)*	343.507	

Convergence Angle	0	9	37.0201403
Scale Factor	1.000045850		
Elevation Adjust. Factor	0.9999835693		
Combined Adjust. Factor	1.0000294185		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	34	43	52.7897316
Longitude	92	16	31.6154064
Ellipsoid Height (M):	77.221		
Geoid Height (M):	-27.480		

Location Description

THE STATION IS LOCATED IN THE NORTHEAST LAWN AT THE GOVERNORS MANSION IN LITTLE ROCK. 20.50 METERS SOUTH OF A TWIN OAK, 20.15 METERS EAST OF THE NORTHEAST CORNER OF THE NORTHEAST WING OF THE MANSION, 18.30 METERS NORTH OF THE MOST NORTHERLY PINE TREE, 1.50 METERS EAST OF THE EAST EDGE OF A CONCRETE SIDEWALK AND 1.50 METERS SOUTEAST OF THE SOUTHEAST EDGE OF A CONCRETE SIDEWALK. THE STATION MARK IS A STANDARD CAP STAMPED "600030A" SET ON TOP OF AN IRON ROD 0.914 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	33	10.00	32.8
MK # 2	SPRINKLER HEAD	200	9.25	30.3
MK # 3	METAL POLE WITH 2 CAMERAS	346	15.13	49.6

AZ Mark Station	600030
Geodetic Azimuth	218 12 02.39309
Grid Azimuth	218 21 39.42886

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	ADAMS 2
Ref Mon # 3	93600019

Comments

ELEVATION BY 3-WIRE USING ARGS BENCH MARK "ACID".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600031	9/30/1996	AHTD	PULASKI	I-440	060799,BB0611

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	627,292.8492	0.0030
Easting (M)	379,405.4407	0.0020
Elevation (M)*	84.648	
Northing (SFT)	2,058,043.2894	
Easting (SFT)	1,244,766.0167	
Elevation (SFT)*	277.717	

Convergence Angle	0	7	33.0013827
Scale Factor			0.999989035
Elevation Adjust. Factor			0.9999867161
Combined Adjust. Factor			0.9999757513

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	42	56.5468740
Longitude	92	13	29.3649096
Ellipsoid Height:			57.250
Grid Northing (Meters)			627,293.3300
Grid Easting (Meters)			379,405.7773

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	34	42	56.5312464	
Longitude	92	13	29.3780964	
Ellipsoid Height (M):			58.142	0.0046
Geoid Height (M):			-26.506	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 440 AND STATE HIGHWAY 365 (CONFEDERATE BLVD.), LOCATED I N EASTERN LITTLE ROCK, GO EAST ON I-440 EAST FOR 2.57 KILOMETERS 1.60 MILES TO EXIT 3, TURN RIGHT ON EXIT 3 FOR 0.48 KILOMETERS 0.30 MILES TO THE JUNCTION OF BANKHEAD DRIVE AND THE STATION ON THE LEFT. 12.70 METERS SOUTHWEST OF THE CENTER OF BANKHEAD DRIVE, 18.70 METERS NORTH- NORTHWEST OF THE CENTER OF THE EXIT RAMP. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600031 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG SET FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	355	6.35	20.8
MK # 2	METAL POLE TO CAUTION LIGHT	148	22.70	74.5
MK # 3	WOODEN UTILITY POLE	212	10.00	32.8

AZ Mark Station	600031A
Geodetic Azimuth	75 39 35.29370
Grid Azimuth	75 47 26.1627

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	MSB6
Ref Mon # 3	P777

Comments

**SUPERCEDED ELEVATION (84.664 m) BY 3-WIRE USING BENCH MARK "ADAMS 2 1970" ELEVATION= 77.842 METERS NAVD88 DATUM.
**********UPDATED ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287 **NOTE: WHEN UPDATED FROM PRE-HARN POSITION, ALSO CHANGED FROM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600031A	9/30/1996	AHTD	PULASKI	I-440	060799,BB0611

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	627,396.7258	0.0030
Easting (M)	379,815.4832	0.0020
Elevation (M)*	84.690	

Northing (SFT)	2,058,384.0912	
Easting (SFT)	1,246,111.2978	
Elevation (SFT)*	277.855	

Convergence Angle	0	7	23.9869640
Scale Factor			0.999989231
Elevation Adjust. Factor			0.9999867095
Combined Adjust. Factor			0.9999759407

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	42	59.9464620
Longitude	92	13	13.2586536
Ellipsoid Height:			57.299
Grid Northing (Meters)			627,397.1971
Grid Easting (Meters)			379,815.8245

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	34	42	59.9311440	
Longitude	92	13	13.2720240	
Ellipsoid Height (M):			58.182	0.0063
Geoid Height (M):			-26.508	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 440 WEST AND U.S. HIGHWAY 165, LOCATED EAST OF NORTH LITTLE ROCK, GO WESTERLY ON I -440 WEST FOR 5.87 KM 3.65 MILES TO EXIT 3 AND THE STATION ON THE RIGHT. 0.46 m NORTH OF METAL WITNESS POST, 1.67m NORTH OF THE NORTH EDGE OF CONCRETE EXIT RAMP. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600031A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND SET FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN GUARD RAIL POST	172	0.73	2.4
MK # 2	PUNCH POINT IN GUARD RAIL POST	97	2.07	6.8
MK # 3	PUNCH POINT IN GUARD RAIL POST	95	3.91	12.8

AZ Mark Station	600031
Geodetic Azimuth	255 39 44.4664
Grid Azimuth	255 47 26.1627

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	MSB6
Ref Mon # 3	P777

Comments

**SUPERCEDED ELEVATION (84.713 m) BY 3-WIRE USING BENCH MARK "ADAMS 2 1970" ELEVATION= 77.842 METERS NAVD88 DATUM.
**********UPDATED ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287. **NOTE: WHEN UPDATED FROM PRE-HARN POSITION, ALSO CHANGED FROM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600032	10/21/1996	AHTD	PULASKI	386	6905_5

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	615,099.7099	
Easting (M)	382,202.2080	
Elevation (M)*	72.343	
Northing (SFT)	2,018,039.6316	
Easting (SFT)	1,253,941.7441	
Elevation (SFT)*	237.345	

Convergence Angle	0	6	30.9750006
Scale Factor	0.999968089		
Elevation Adjust. Factor	0.9999886472		
Combined Adjust. Factor	0.9999567365		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	36	21.0220560	
Longitude	92	11	38.5554876	
Ellipsoid Height (M):	45.196			
Geoid Height (M):	-27.148			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 386 AND STATE HIGHWAY 365, IN WRIGHTEVILLE, GO EAST ON STATE HIGHWAY 386 FOR 2.01 KM. (1.25 MI.) TO THE JUNCTION OF A GRAVEL ROAD (ASHER ROAD) TURN LEFT (NORTH) ON ASHER ROAD FOR 0.45 KM. (0.28 MI.) TO THE STATION ON THE LEFT. THE STATION IS 1.110 METERS EAST NORTHEAST OF A METAL WITNESS POST, 26.40 METERS WEST OF THE CENTER OF ASHER ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600032 1996" SET ON TOP 0F AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER FENCE POST R/R CROSS TIE	256	1.22	4.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	600032A
Geodetic Azimuth	194 56 20.71341
Grid Azimuth	195 02 51.66993

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	R 107
Ref Mon # 3	SALIPORT

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING NOAA BENCH MARK "N 287" A STAINLESS STEEL ROD MARK UNDER A LOGO CAP. ELEVATION = 78.600 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600032A	10/21/1996	AHTD	PULASKI	386	6905_5

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	614,670.5969
Easting (M)	382,086.8450
Elevation (M)*	71.808
Northing (SFT)	2,016,631.7833
Easting (SFT)	1,253,563.2573
Elevation (SFT)*	235.590
Convergence Angle	0 6 33.4912614
Scale Factor	0.999967419
Elevation Adjust. Factor	0.9999887311
Combined Adjust. Factor	0.9999561505

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 36 7.0889724
Longitude	92 11 43.0512936
Ellipsoid Height (M):	44.669
Geoid Height (M):	-27.140

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 386 AND STATE HIGHWAY 365, IN WRIGHTSVILLE, GO EAST ON STATE HIGHWAY 386 FOR 2.01 KM. (1.25 MI.) TO THE JUNCTION OF ASHER ROAD AND THE STATION ON THE LEFT. THE STATION IS 1.38 METERS SOUTH SOUTHEAST OF A METAL WITNESS POST, 12.0 METERS NORTH OF THE CENTER OF STATE HIGHWAY 386, 25.5 METERS WEST OF THE CENTER OF ASHER ROAD. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600032A 1996" SET ON TOP OF AN IRON ROD 1.22 METTERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	RAIL ROAD TIE CORNER POST	325	1.46	4.8
MK # 2	TELEPHONE JUNCTION BOX	85	18.95	62.2
MK # 3	WEST END OF AN R.C.P. (0.60m) DIA.	91	19.80	65.0

AZ Mark Station	600032
Geodetic Azimuth	14 56 18.160243
Grid Azimuth	15 02 51.669934

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	R 107
Ref Mon # 3	SALIPORT

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING NOAA BENCH MARK "N 287" A STAINLESS STEEL ROD MARK UNDER A LOGO CAP. ELEVATION = 72.600 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600033	12/2/1996	AHTD	PULASKI	630	060816,061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	630,530.2269	
Easting (M)	368,886.4643	
Elevation (M)*	110.222	
Northing (SFT)	2,068,664.5861	
Easting (SFT)	1,210,255.0083	
Elevation (SFT)*	361.620	

Convergence Angle	0	11	24.6134914
Scale Factor			0.999995163
Elevation Adjust. Factor			0.9999827029
Combined Adjust. Factor			0.9999778660

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEIOD09

Latitude	34	44	40.6473000	
Longitude	92	20	23.1997200	
Ellipsoid Height (M):			83.521	
Geoid Height (M):			-26.646	

Location Description

THE STATION IS LOCATED IN THE SOUTHEASTERN QUADRANT OF THE I-630 OVERPASS AND INTERCHANGE AT UNIVERSITY AVE. ABOUT 0.16 KM. (0.10 MI.) EAST OF UNIVERSITY AVE. ON THE SOUTH SIDE OF THE EAST BOUND ON RAMP ONTO I-630. 2.89 METERS SOUTH OF THE CENTER OF THE ON RAMP AND 1.34 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600033 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	44	40.6604940
Longitude	92	20	23.1818280
Ellipsoid Height:			82.661
Grid Northing (Meters)			630,530.6320
Grid Easting (Meters)			368,886.9208

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"X" CUT IN TOP OF CONCRETE GUARD RAI L POST	66	7.61	25.0
MK # 2	"X" CUT IN TOP OF CONCRETE GUARD RAI L POST	345	1.63	5.3
MK # 3	"X" CUT IN TOP OF CONCRETE GUARD RAI L POST	279	4.23	13.9

AZ Mark Station	PAGIS 1004
Geodetic Azimuth	78 41 32.83131
Grid Azimuth	78 53 24.49231

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	PAGIS 1004

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600034	12/2/1996	AHTD	PULASKI	630	060816,061381,061510

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	630,495.7015
Easting (M)	371,557.2993
Elevation (M)*	106.383
Northing (SFT)	2,068,551.3140
Easting (SFT)	1,219,017.5728
Elevation (SFT)*	349.025

Convergence Angle	0	10	25.8432626
Scale Factor			0.999995112
Elevation Adjust. Factor			0.9999833053
Combined Adjust. Factor			0.9999784174

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	44	39.8158008
Longitude	92	18	38.1783276
Ellipsoid Height:			78.846
Grid Northing (Meters)			630,496.1182
Grid Easting (Meters)			371,557.7217

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD09		
Latitude	34	44	39.8022360
Longitude	92	18	38.1948840
Ellipsoid Height (M):	79.727		
Geoid Height (M):	-26.638		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE BROADWAY STREET BRIDGE AND I-630 IN LITTLE ROCK GO WEST ON I-630 FOR 3.30 KM. (2.05 MI.) TO THE STATION ON THE RIGHT. 5.75 METERS NORTH OF THE BACK OF THE CONCRETE CURB ON THE NORTH (WEST BOUND) LANE OF I-630 AND 0.96 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600034 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	264	41.70	136.8
MK # 2	CENTER OF MANHOLE	100	35.35	116.0
MK # 3	GUY POLE	14	16.78	55.1

AZ Mark Station	600034A
Geodetic Azimuth	267 13 49.66915
Grid Azimuth	267 24 40.46056

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	PAGIS 1004

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600034A	12/2/1996	AHTD	PULASKI	630	060816,061510

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	45,625.4429	
Easting (M)	371,028.1110	
Elevation (M)*	115.740	
Northing (SFT)	149,689.4739	
Easting (SFT)	1,217,281.3942	
Elevation (SFT)*	379.724	

Convergence Angle	0	11	2.7495960
Scale Factor	1.000042573		
Elevation Adjust. Factor	0.9999818369		
Combined Adjust. Factor	1.0000244092		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	44	38.9861628
Longitude	92	18	58.9424112
Ellipsoid Height (M):	88.200		
Geoid Height (M):	-27.540		

Location Description

THE STATION IS LOCATED IN THE SOUTHEASTERN QUADRANT OF THE I-630 AND PINE STREET INTERCHANGE IN LITTLE ROCK. 24.10 METERS EAST OF THE CENTER OF PINE STREET, 5.65 METERS NORTH OF THE BACK OF THE CONCRETE CURB ON THE EIGHTH STREET ON RAMP TO I-630 AND 0.70 METERS SOUTH OF A WITNESS POST SET NEAR A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600034A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGNAL LIGHT POLE	261	15.05	49.4
MK # 2	FENCE CORNER POST	276	9.15	30.0
MK # 3	FENCE CORNER POST	284	16.50	54.1

AZ Mark Station	600034
Geodetic Azimuth	87 13 37.83539
Grid Azimuth	87 24 40.46056

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	PAGIS 1004

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION 600027A ELEVATION = 123.691 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600035	12/2/1996	AHTD	PULASKI	N/A	060816,061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	629,955.5856	
Easting (M)	374,746.6659	
Elevation (M)*	92.833	
Northing (SFT)	2,066,779.2838	
Easting (SFT)	1,229,481.3530	
Elevation (SFT)*	304.570	

Convergence Angle	0	9	15.6338987
Scale Factor			0.999994081
Elevation Adjust. Factor			0.9999854317
Combined Adjust. Factor			0.9999795128

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	44	22.5845520
Longitude	92	16	32.7349344
Ellipsoid Height:			65.333
Grid Northing (Meters)			629,955.9949
Grid Easting (Meters)			374,747.0943

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD09		
Latitude	34	44	22.5712320
Longitude	92	16	32.7517320
Ellipsoid Height (M):	66.204		
Geoid Height (M):	-26.622		

Location Description

TO REACH THE STATION FROM THE BROADWAY STREET BRIDGE OVER I-630 IN DOWNTOWN LITTLE ROCK GO NORTH ON BROADWAY FOR 0.16 KM. (0.10 MI.) TO THE JUNCTION WITH WEST 9th STREET, TURN RIGHT (EAST) ON 9th STREET AND GO 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH SPRING STREET, TURN RIGHT (SOUTH) ON SPRING STREET AND GO 0.08 KM. (0.05 MI.) TO THE JUNCTION WITH 10th STREET AND THE STATION JUST SOUTHWEST OF THIS JUNCTION NEAR THE SIDEWALK. 22.25 METERS NORTH OF THE CENTER OF A PAVED STREET, 16.0 METERS SOUTH OF THE CENTER OF 10th STREET, 8.0 METERS WEST OF THE CENTER OF SPRING STREET AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600035 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	11	9.46	31.0
MK # 2	MANHOLE COVER	62	18.04	59.2
MK # 3	MANHOLE COVER	130	18.15	59.5

AZ Mark Station	PAGIS UALR 16
Geodetic Azimuth	273 09 14.65225
Grid Azimuth	273 18 52.42579

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	PAGIS 1004

Comments

ELEVATION BY 3-WIRE LEVELING USING AHTD BM DISK SET IN NW WINGWALL OF THE BROADWAY STREET BR. OVER I-630. ELEV = 96.983 m NAVD88 DATUM. BM ELEVATION WAS ARRIVED AT USING VERTCON TO CONVERT FROM NGVD29 DATUM TO NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600036	6/16/1998	AHTD	PULASKI	10	060884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	58,792.5410
Easting (M)	348,186.3410
Elevation (M)*	97.754
Northing (SFT)	192,888.5283
Easting (SFT)	1,142,341.3538
Elevation (SFT)*	320.715
Convergence Angle	0 19 46.9933361
Scale Factor	1.000014809
Elevation Adjust. Factor	0.9999846594
Combined Adjust. Factor	0.9999994682

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 51 42.9302160
Longitude	92 33 59.8609980
Ellipsoid Height (M):	70.460
Geoid Height (M):	-27.294

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 9.17 KM (5.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 24.09 METERS NORTHWEST OF THE CENTER OF MAUELLE HARBOR ROAD, 11.677 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 10 AMD 0.50 METERS SOUTHWEST OF OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600036 1998" SET ON TOP OF AN IRON ROD 0.73 METERS LONG AND DRIVEN FLUSH WITH THE GROUNG.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	325	11.46	37.6
MK # 2	WARNING SIGN FOR A UNDER GROUND CA PLE	95	9.31	30.5
MK # 3	0.50 METER RCP	140	15.87	52.1

AZ Mark Station	600036A
Geodetic Azimuth	299 51 48.00505
Grid Azimuth	300 11 35.13046

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SALIPORT
Ref Mon # 3	PJTC CAMPUS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600036A	6/16/1998	AHTD	PULASKI	10	060884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	59,170.9500
Easting (M)	347,535.9890
Elevation (M)*	98.848
Northing (SFT)	194,130.0251
Easting (SFT)	1,140,207.6572
Elevation (SFT)*	324.304
Convergence Angle	0 20 1.9423579
Scale Factor	1.000014075
Elevation Adjust. Factor	0.9999844878
Combined Adjust. Factor	0.9999985625

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 51 55.0871964
Longitude	92 34 25.5510552
Ellipsoid Height (M):	71.529
Geoid Height (M):	-27.319

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 8.53 MI (5.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 51.560 METERS EAST OF THE CENTER OF A GRAVEL DRIVE DRIVEWAY, 11.633 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 4.90 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600036A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	30	5.19	17.0
MK # 2				
MK # 3				

AZ Mark Station	600036
Geodetic Azimuth	119 51 33.31997
Grid Azimuth	120 11 35.13046

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SALIPORT
Ref Mon # 3	PJTC CAMPUS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600037	6/16/1998	AHTD	PULASKI	10	060884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	60,154.3409	
Easting (M)	342,059.6560	
Elevation (M)*	91.629	
Northing (SFT)	197,356.3668	
Easting (SFT)	1,122,240.7214	
Elevation (SFT)*	300.619	

Convergence Angle	0	22	7.5459963
Scale Factor	1.000012227		
Elevation Adjust. Factor	0.9999856206		
Combined Adjust. Factor	0.9999978475		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	52	25.9080744
Longitude	92	38	1.4022780
Ellipsoid Height (M):	64.185		
Geoid Height (M):	-27.444		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 5.95 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.77 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600037 1988" SET ON TOP OF AN IRON ROD 0.61 METER LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED "X" IN A CONCRETE GUARD RAIL POST	342	1.02	3.3
MK # 2	CHISELED "X" IN THE EAST END OF A HEADWALL	140	6.15	20.2
MK # 3	GOVERMENT BENCH MARK "TT 22 RWS"	205	7.83	25.7

AZ Mark Station	PAGIS 2092
Geodetic Azimuth	72 56 06.951243
Grid Azimuth	73 18 14.454437

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SALIPORT
Ref Mon # 3	PJTC CAMPUS

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM USC&GS BENCHMARK "TT 22 RWS" ELEVATION = 89.941 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600038	6/16/1998	AHTD	PULASKI	10	060884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	60,462.8640	
Easting (M)	332,726.7470	
Elevation (M)*	120.942	
Northing (SFT)	198,368.5796	
Easting (SFT)	1,091,621.0024	
Elevation (SFT)*	396.791	

Convergence Angle	0	25	41.4297364	
Scale Factor	1.000011757			
Elevation Adjust. Factor	0.9999810206			
Combined Adjust. Factor	0.9999927774			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	52	33.8132244	
Longitude	92	44	8.9638188	
Ellipsoid Height (M):	93.317			
Geoid Height (M):	-27.625			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO WEST ON STATE HIGHWAY 10 FOR 7.72 KM (4.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 55.85 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 34.95 METERS WEST OF THE CENTER OF A PAVED DRIVEWAY , 8.65 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600038 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	255	53.25	174.7
MK # 2	POWER POLE	333	48.35	158.6
MK # 3	0.39 METER CYPRESS TREE	64	23.55	77.3

AZ Mark Station	PAGIS 2093
Geodetic Azimuth	249 21 55.29640
Grid Azimuth	249 47 36.78464

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SALIPORT
Ref Mon # 3	PJTC CAMPUS

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM TBM-902 ON JOB 001837 ELEVATION = 119.884 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600039A	9/21/1998	AHTD	PULASKI	176	R60080

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	55,100.2929
Easting (M)	383,429.9000
Elevation (M)*	86.196
Northing (SFT)	180,774.8776
Easting (SFT)	1,257,969.5969
Elevation (SFT)*	282.795
Convergence Angle	0 6 19.4507279
Scale Factor	1.000021959
Elevation Adjust. Factor	0.9999864732
Combined Adjust. Factor	1.0000084319

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 49 47.4599208
Longitude	92 10 52.0902156
Ellipsoid Height (M):	59.750
Geoid Height (M):	-26.770

Location Description

THE STATION IS IN SHERWOOD, AT THE JUNCTION OF U.S. HIGHWAY 67-167 AND STATE HIGHWAY 176 (KIEHL AVENUE) AT THE SOUTH END OF THE OVERPASS. THE STATION IS 25.08 METERS SOUTH OF THE CENTER OF THE FRONTAGE ROAD, 5.464 METERS EAST OF THE CENTER OF STATE HIGHWAY 176 (KIEHL AVENUE) AND 0.77 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600039A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE GUARD RAIL POST	173	5.54	18.2
MK # 2	CONCRETE GUARD RAIL POST	187	1.82	6.0
MK # 3	CONCRETE GUARD RAIL POST	323	2.23	7.3

AZ Mark Station	600039
Geodetic Azimuth	49 31 12.811296
Grid Azimuth	49 37 32.197066

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SEARPORT

Comments

3-wire levels ran by S5101 in Job R60080 in 1999-2000 as per Kenneth Scott Mar 2005 from NGS BM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600040	6/26/2000	AHTD	PULASKI	I40	060994

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	50,155.4187	
Easting (M)	388,194.9845	
Elevation (M)*	81.516	
Northing (SFT)	164,551.5695	
Easting (SFT)	1,273,603.0450	
Elevation (SFT)*	267.440	

Convergence Angle	0	4	30.1834276
Scale Factor	1.000032390		
Elevation Adjust. Factor	0.9999872077		
Combined Adjust. Factor	1.0000195972		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	47	7.2426732
Longitude	92	7	44.3131680
Ellipsoid Height (M):	54.736		
Geoid Height (M):	-26.637		

Location Description

THE STATION IS LOCATED IN GALLOWAY AT THE JUNCTION OF I-40 AND DICK JETER ROAD (EXIT 161). THE STATION IS ABOUT 30 METERS NORTH OF THE CENTER OF THE WEST BOUND LANE OF I-40, 22.80 METERS NORTH OF THE NORTHWEST CORNER OF THE OVERPASS, 7.30 METERS WEST OF THE CENTER OF DICK JETER ROAD AND 1.00 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600040 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 513.498 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH MARK IN TOP OF GUARD RAIL POST	80	1.17	3.8
MK # 2	PUNCH MARK IN TOP OF GUARD RAIL POST	146	4.16	13.6
MK # 3	NONE			

AZ Mark Station	600040A
Geodetic Azimuth	250 07 06.34846
Grid Azimuth	250 11 36.64018

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	PAGIS 2001
Ref Mon # 3	R 107

Comments

ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600040A	6/26/2000	AHTD	PULASKI	I40	060994

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	49,981.4168	
Easting (M)	387,711.8469	
Elevation (M)*	74.873	
Northing (SFT)	163,980.6983	
Easting (SFT)	1,272,017.9510	
Elevation (SFT)*	245.645	

Convergence Angle	0	4	41.2356381	
Scale Factor	1.000032770			
Elevation Adjust. Factor	0.9999882502			
Combined Adjust. Factor	1.0000210198			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	47	1.5753768	
Longitude	92	8	3.3065124	
Ellipsoid Height (M):	48.100			
Geoid Height (M):	-26.633			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-40 AND DICK JETER ROAD (EXIT 161), LOCATED IN GALLOWAY, GO SOUTH ON DICK JETER ROAD FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF MABELLINE ROAD ON THE RIGHT, GO RIGHT WEST ON MAYBELLINE ROAD FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.30 METERS SOUTH OF THE CENTER OF MAYBELLINE ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600040A 2000" SET ON TOP OF AN IRON ROAD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 513.498 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER POST	247	7.25	23.8
MK # 2	WATER METER	101	4.70	15.4
MK # 3	NONE			

AZ Mark Station	600040
Geodetic Azimuth	70 06 55.51290
Grid Azimuth	70 11 36.64018

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	PAGIS 2001
Ref Mon # 3	R 107

Comments

ELEVATION BY 3-WIRE BY S5111 FROM NGS POINT GALLAWAY 2 RM 1

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600041	3/5/2001	AHTD	PULASKI	430	905_11,061148,060657,06138

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	631,961.0829	
Easting (M)	364,223.8621	
Elevation (M)*	134.697	
Northing (SFT)	2,073,358.9861	
Easting (SFT)	1,194,957.7876	
Elevation (SFT)*	441.919	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	45	26.5401936	
Longitude	92	23	26.7186480	
Ellipsoid Height (M):	107.978			
Geoid Height (M):	-26.717			

Convergence Angle	0	13	7.3273263
Scale Factor	0.999997945		
Elevation Adjust. Factor	0.9999788621		
Combined Adjust. Factor	0.9999768071		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-430 AND I-630, LOCATED ON THE WEST SIDE OF LITTLE ROCK, GO NORTH ON I-430 FOR 1.05 KM (0.65 MI) TO A PEDESTRAIN BRIDGE AND THE STATION ON THE RIGHT SET ON TOP OF A HIGH BANK. THE STATION IS 19.26 METERS EAST OF THE EAST EDGE OF CONCRETE OF THE NORTH BOUND LANE, 9.10 METERS SOUTH OF THE CENTER OF A SIDEWALK AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600041 2001) SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 1201.886 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	44	5.20	17.1
MK # 2	SOUTHEAST CORNER OF BRIDGE	340	8.22	27.0
MK # 3	NORTH POST TO A SIGN	252	11.70	38.4

AZ Mark Station	600041A
Geodetic Azimuth	190 50 10.68997
Grid Azimuth	191 03 49.31095

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	PAGIS 2074
Ref Mon # 3	AHTD LITTLE ROCK

Comments

3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600041A	12/17/2012	AHTD	Pulaski	630	061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	630,788.0238
Easting (M)	364,000.2860
Elevation (M)*	
Northing (SFT)	2,069,510.3748
Easting (SFT)	1,194,224.2717
Elevation (SFT)*	
Convergence Angle	0 13 12.1483854
Scale Factor	0.999995632
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD09		
Latitude	34	44	48.4454760
Longitude	92	23	35.3324400
Ellipsoid Height (M):	96.958		
Geoid Height (M):	-26.682		

Location Description

THIS IS A RESET!!! The station is located on the West side of Little Rock at the junction of I-430 and I-630. The station is South of I-630 and West of I-430, set near a parking lot. The station is 12.6 ft. North of the edge of concrete from the I-430 off ramp leading to Shackleford Rd. and 3 ft. South of a metal witness post. The station mark is a 2 1/2 in. cap stamped "600041ARESET 2012" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in below the surface.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	44	48.2335080
Longitude	34	44	48.2335080
Ellipsoid Height:	99.254		
Grid Northing (Meters)	2,058,917.5866		
Grid Easting (Meters)	5,373,515.3908		

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Flared End Section	301	5.33	17.5
MK # 2	NorthWest Pole of sign over I-430 off ramp	89	28.96	95.0
MK # 3				

AZ Mark Station	600041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

THIS POINT WAS RESET AND HAS NOT HAD LEVELS RAN TO IT. IT ONLY HAS A GPS DERIVED ELEV. OF 405.6439 U.S. FEET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600042	8/28/2001	AHTD	PULASKI	N/A	060987,061318

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	631,674.5114
Easting (M)	375,930.5935
Elevation (M)*	78.364
Northing (SFT)	2,072,418.7928
Easting (SFT)	1,233,365.6222
Elevation (SFT)*	257.099
Convergence Angle	0 8 49.6818930
Scale Factor	0.999997451
Elevation Adjust. Factor	0.9999877023
Combined Adjust. Factor	0.9999851533

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	34 45 18.4534812
Longitude	92 15 46.3832532
Ellipsoid Height (M):	51.661
Geoid Height (M):	-26.658

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 30 AND I 40 LOCATED IN NORTH LITTLE ROCK, GO SOUTHWEST ON I 30 FOR 1.931 KM (1.2 MI) TO EXIT 141 B (BROADWAY), TO THE RIGHT, CONTINUE ON DOWN THE RAMP TO CYPRESS STREET AND CONTINUE DOWN CYPRESS STREET 0.644 KM (0.4 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.30 METERS WEST OF THE CENTER OF I 30 WEST BOUND ON RAMP, 6.80 METERS EAST OF THE CENTER OF CYPRESS STREET, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600042 2001" SET OF TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.216 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	231	12.50	41.0
MK # 2				
MK # 3				

AZ Mark Station	600042A
Geodetic Azimuth	3 40 58
Grid Azimuth	3 50 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	AHTD LITLE ROCK 1
Ref Mon # 3	PAGIS 1001

Comments

ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600042A	8/28/2001	AHTD	PULASKI	I 30	060987

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	47,439.1449	
Easting (M)	375,970.5990	
Elevation (M)*	81.244	
Northing (SFT)	155,639.9279	
Easting (SFT)	1,233,496.8736	
Elevation (SFT)*	266.548	

Convergence Angle	0	9	9.7983554
Scale Factor	1.000038437		
Elevation Adjust. Factor	0.9999872503		
Combined Adjust. Factor	1.0000256868		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	45	38.3116176	
Longitude	92	15	44.8344720	
Ellipsoid Height (M):	54.512			
Geoid Height (M):	-26.588			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 30 AND I 40 LOCATED IN NORTH LITTLE ROCK, GO SOUTHWEST ON I 30 FOR 1.931 KM (1.2 MI) TO EXIT 141B (BROADWAY), TO THE RIGHT, CONTINUE DOWN RAMP 0.05 MI TO THE STATION ON THE LEFT. THE STATION IS 18.55 METERS EAST OF THE CENTER OF THE BROADWAY EXIT RAMP, 11.80 METERS WEST OF THE WEST EDGE OF I 30 WEST BOUND LANE, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600042A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 613.216 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL GUARD RAIL POST WITH PUNCH M ARK	113	8.05	26.4
MK # 2	METAL GUARD RAIL POST WITH PUNCH M ARK	140	11.80	38.7
MK # 3				

AZ Mark Station	600042
Geodetic Azimuth	183 40 59
Grid Azimuth	183 50 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	AHTD LITLE ROCK 1
Ref Mon # 3	PAGIS 1001

Comments

ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600043	8/28/2001	AHTD	PULASKI	165	061117, 060987

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	46,467.0910
Easting (M)	380,408.0940
Elevation (M)*	78.489
Northing (SFT)	152,450.7811
Easting (SFT)	1,248,055.5551
Elevation (SFT)*	257.509

Convergence Angle	0	7	28.2194500
Scale Factor			1.000040602
Elevation Adjust. Factor			0.9999876827
Combined Adjust. Factor			1.0000282842

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	45	7.1170920
Longitude	92	12	50.2700148
Ellipsoid Height (M):	51.771		
Geoid Height (M):	-26.564		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 165 LOCATED IN ROSE CITY, GO EAST ON STATE HIGHWAY 165 FOR 0.644 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.70 METERS NORTH OF THE CENTER OF STATE HIGHWAY 165, 12.80 METERS EAST OF THE CENTER OF PROTHRO STREET, 6.30 METERS SOUTH OF THE SOUTH RAIL, AND 1.00 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600043 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 638.278 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	600043A
Geodetic Azimuth	114 21 58
Grid Azimuth	114 29 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	AHTD LITLE ROCK 1
Ref Mon # 3	PAGIS 1001

Comments

ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600043A	8/28/2001	AHTD	PULASKI	165	061117, 060987

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	46,202.4899	
Easting (M)	380,988.9640	
Elevation (M)*	78.491	
Northing (SFT)	151,582.6689	
Easting (SFT)	1,249,961.2927	
Elevation (SFT)*	257.516	

Convergence Angle	0	7	14.9177051
Scale Factor	1.000041199		
Elevation Adjust. Factor	0.9999876824		
Combined Adjust. Factor	1.0000288808		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	44	58.5712104	
Longitude	92	12	27.4108212	
Ellipsoid Height (M):	51.789			
Geoid Height (M):	-26.558			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 165 LOCATED IN ROSE CITY, GO EAST ON STATE HIGHWAY 165 FOR 1.287 KM (0.80 MI) TO THE STATION ON THE LEFT. THE STATION IS 33.80 METERS EAST OF THE CENTER OF MILLS STREET, 10.90 METERS NORTHOF THE CENTER OF STATE HIGHWAY 165, 8.00 METERS SOUTH OF THE SOUTH RAIL, AND 1.00 METER NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600043A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 638.278 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	600043
Geodetic Azimuth	294 22 11
Grid Azimuth	294 29 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	AHTD LITLE ROCK 1
Ref Mon # 3	PAGIS 1001

Comments

ELEVATION BY 3-WIRE BY S5111 FROM NGS TS 6 B RM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600044	8/28/2001	AHTD	PULASKI	N/A	061026

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	59,212.1530	
Easting (M)	390,035.5290	
Elevation (M)*	84.969	
Northing (SFT)	194,265.2053	
Easting (SFT)	1,279,641.5647	
Elevation (SFT)*	278.769	

Convergence Angle	0	3	48.2880206
Scale Factor			1.000013706
Elevation Adjust. Factor			0.9999866658
Combined Adjust. Factor			1.0000003716

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	52	1.2055872	
Longitude	92	6	32.3154540	
Ellipsoid Height (M):	58.105			
Geoid Height (M):	-26.864			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 161 AND STATE HIGHWAY 294 IN JACKSONVILLE, GO NORTH ON STATE HIGHWAY 161(SOUTH FIRST STREET) FOR 1.931 KM (1.2 MI) TO THE JUNCTION OF SHORT STREET TO THE RIGHT, GO RIGHT ON SHORT STREET FOR 0.129 KM (0.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 28.80 METERS SOUTHEAST OF THE CENTER OF EAST CENTER STREET, 14.70 METERS SOUTHEAST OF THE CENTER OF SHORT STREET, 9.35 METERS NORTHWEST OF THE NEAR RAIL, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600044 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS RUN BY CREW S5102 FROM USC & GS BENCH MARK RV 154 PID # EJ 0040. THE SHOT DISTANCE IS 302.778 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE PIPE	51	21.90	71.9
MK # 2	LIGHT POLE	340	10.70	35.1
MK # 3	POWER POLE	232	20.70	67.9

AZ Mark Station	600044A
Geodetic Azimuth	225 06 34
Grid Azimuth	225 10 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	430013
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SEARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600044A	8/28/2001	AHTD	PULASKI	161	061026

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	58,998.7030	
Easting (M)	389,820.7870	
Elevation (M)*	85.749	
Northing (SFT)	193,564.9114	
Easting (SFT)	1,278,937.0320	
Elevation (SFT)*	281.328	

Convergence Angle	0	3	53.2022712
Scale Factor	1.000014124		
Elevation Adjust. Factor	0.9999865434		
Combined Adjust. Factor	1.0000006672		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	51	54.2713284
Longitude	92	6	40.7606472
Ellipsoid Height (M):	58.890		
Geoid Height (M):	-26.859		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 161 AND STATE HIGHWAY 294 IN JACKSONVILLE, GO NORTH ON STATE HIGHWAY 161(SOUTH FIRST STREET) FOR 1.786 KM (1.11 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.30 METERS SOUTHEAST OF MULBERRY STREET, 18.30 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 161 (SO FIRST STREET), 13.90 METERS NORTHWEST OF THE NEAR RAIL, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600044A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVELS RUN BY CREW S5102 FROM USC & GS BENCH MARK RV 154, PID # EJ 0040. THE SHOT DISTANCE IS 302.778 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	283	28.00	91.9
MK # 2	CORNER OF ROCK AND BLOCK BUILDING	325	29.15	95.6
MK # 3				

AZ Mark Station	600044
Geodetic Azimuth	45 06 29
Grid Azimuth	45 10 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	430013
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SEARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600045	12/19/2001	AHTD	PULASKI	I 440	0, R60101,061261 061475,BE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	55,773.6402	0.0020
Easting (M)	386,079.2353	0.0020
Elevation (M)*	80.876	

Northing (SFT)	182,984.0179	
Easting (SFT)	1,266,661.6245	
Elevation (SFT)*	265.342	

Convergence Angle	0	5	18.8056176
Scale Factor			1.000020573
Elevation Adjust. Factor			0.9999873080
Combined Adjust. Factor			1.0000078808

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	50	9.4561080
Longitude	92	9	7.8714576
Ellipsoid Height:			54.162
Grid Northing (Meters)			55,773.6580
Grid Easting (Meters)			386,079.2220

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	50	9.4555320	
Longitude	92	9	7.8709320	
Ellipsoid Height (M):			53.943	0.0150
Geoid Height (M):			-26.882	

Location Description

THIS STATION IS LOCATED AT THE NORTH END OF THE NEWLY CONSTRUCTED UNION PACIFIC RAILROAD OVERPASS FOR I 440. IT IS AT THE NORTH END OF BRIDGE NUMBER A6754. THE STATION IS 0.85 METERS WEST OF THE BRIDGE WALL AND 0.65 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600045 2001" SET OF TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.895 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AHTD BENCH MARK CAP IN OVERPASS WA LL	9	2.61	8.6
MK # 2				
MK # 3				

AZ Mark Station	600045A
Geodetic Azimuth	160 32 36
Grid Azimuth	160 37 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	ARBT

Comments

3wire levels ran by crew S5113 on Job R60081 in March 05 from NGS RV159. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159. COORDINATES WERE UPDATED DURING BB0620 IN 11/16.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600045A	12/19/2001	AHTD	PULASKI	I 440	060110, BB0620

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	55,209.6898	0.0020
Easting (M)	386,277.4831	0.0020
Elevation (M)*	79.278	

Northing (SFT)	181,133.7906	
Easting (SFT)	1,267,312.0425	
Elevation (SFT)*	260.099	

Convergence Angle	0	5	14.2457862
Scale Factor			1.000021724
Elevation Adjust. Factor			0.9999875588
Combined Adjust. Factor			1.0000092825

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	49	51.1621860
Longitude	92	9	0.0338292
Ellipsoid Height:			52.547
Grid Northing (Meters)			55,209.5960
Grid Easting (Meters)			386,277.5080

Vertical Determined By:	Level - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	49	51.1652280	
Longitude	92	9	0.0348120	
Ellipsoid Height (M):			52.309	0.0150
Geoid Height (M):			-26.866	

Location Description

THIS STATION IS LOCATED AT THE SOUTH END OF THE NEWLY CONSTRUCTED UNION PACIFIC RAILROAD OVERPASS FOR I 440. IT IS AT THE SOUTH END OF THE SOUTH BOUND TRAFFIC LANES. THE STATION IS 0.61 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600045A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.895 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH EAST END OF RAILROAD OVERPAS S	126	2.95	9.7
MK # 2				
MK # 3				

AZ Mark Station	600045
Geodetic Azimuth	340 32 40
Grid Azimuth	340 37 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARWY
Ref Mon # 3	ARBT

Comments

3wire levels ran by crew S5113 on Job R60081 in March 05 from NGS RV159. COORDINATES WERE UPDATED DURING BB0620 IN 11/16.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600046	12/19/2001	AHTD	PULASKI	107	060110, R60101

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	58,919.9510	
Easting (M)	381,830.8360	
Elevation (M)*	76.238	
Northing (SFT)	193,306.5392	
Easting (SFT)	1,252,723.3344	
Elevation (SFT)*	250.123	

Convergence Angle	0	6	56.2452720
Scale Factor	1.000014303		
Elevation Adjust. Factor	0.9999880360		
Combined Adjust. Factor	1.0000023388		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	51	51.3076464
Longitude	92	11	55.3220412
Ellipsoid Height (M):	49.381		
Geoid Height (M):	-26.886		

Location Description

TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN SOUTH (RIGHT) ONTO STATE HIGHWAY 107 AND GO SOUTH ON STATE HIGHWAY 107 FOR 0.869 KM (.54 MI) TO THE STATION ON THE RIGHT. THE STATION IS 25.00 METERS SOUTH OF THE CENTER OF A PAVED DRIVE, 6.00 METERS WEST OF THE WEST EDGE OF THE SOUTH BOUND LANE OF STATE HIGHWAY 107, AND 1.20 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600046 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 706.196 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF GUARD RAIL	76	2.34	7.7
MK # 2				
MK # 3				

AZ Mark Station	600046A
Geodetic Azimuth	197 22 05
Grid Azimuth	197 29 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600046A	12/19/2001	AHTD	PULASKI	107	060110, R60101

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	58,246.3700	
Easting (M)	381,618.6690	
Elevation (M)*	84.815	
Northing (SFT)	191,096.6322	
Easting (SFT)	1,252,027.2499	
Elevation (SFT)*	278.265	

Convergence Angle	0	7	1.0743821
Scale Factor			1.000015629
Elevation Adjust. Factor			0.9999866899
Combined Adjust. Factor			1.0000023187

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	51	29.4359724
Longitude	92	12	3.6209196
Ellipsoid Height (M):	57.967		
Geoid Height (M):	-26.867		

Location Description

TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN SOUTH (RIGHT) ONTO STATE HIGHWAY 107 AND GO SOUTH ON STATE HIGHWAY 107 FOR 1.577 KM (.98 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 107 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600046A 2001" SET ON TOP OF AN IRON ROD 0.72 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 706.196 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	600046
Geodetic Azimuth	17 22 00
Grid Azimuth	17 29 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600047	12/19/2001	AHTD	PULASKI	107	060110,061738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	60,667.3731	0.0030
Easting (M)	383,203.8173	0.0020
Elevation (M)*	80.913	
Northing (SFT)	199,039.5399	
Easting (SFT)	1,257,227.8573	
Elevation (SFT)*	265.462	

Convergence Angle	0	6	24.8658183
Scale Factor			1.000010911
Elevation Adjust. Factor			0.9999873023
Combined Adjust. Factor			0.9999982132

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	52	48.0978480
Longitude	92	11	1.3969464
Ellipsoid Height:			54.020
Grid Northing (Meters)			60,667.3670
Grid Easting (Meters)			383,203.7960

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	34	52	48.0980460	
Longitude	92	11	1.3961076	
Ellipsoid Height (M):			53.898	0.0110
Geoid Height (M):			-27.029	

Location Description

TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN NORTH (LEFT) ON STATE HIGHWAY 107 AND GO NORTH ON STATE HIGHWAY 107 FOR 1.770 KM (1.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 107 AND 0.70 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600047 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 563.956 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF GUARD RAIL	319	1.50	4.9
MK # 2	PUNCH MARK IN METAL GUARD RAIL POST	67	15.30	50.2
MK # 3				

AZ Mark Station	600047A
Geodetic Azimuth	71 55 57
Grid Azimuth	72 02 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600047A	12/19/2001	AHTD	PULASKI	107	060110,061738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	60,841.2693	0.0030
Easting (M)	383,740.2942	0.0020
Elevation (M)*	101.700	
Northing (SFT)	199,610.0644	
Easting (SFT)	1,258,987.9486	
Elevation (SFT)*	333.661	

Convergence Angle	0	6	12.5802726
Scale Factor	1.000010576		
Elevation Adjust. Factor	0.9999840402		
Combined Adjust. Factor	0.9999946160		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	52	53.7729708
Longitude	92	10	40.2843756
Ellipsoid Height:	74.774		
Grid Northing (Meters)	60,841.2700		
Grid Easting (Meters)	383,740.2660		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	34	52	53.7729492	
Longitude	92	10	40.2832632	
Ellipsoid Height (M):	74.672			0.0100
Geoid Height (M):	-27.031			

Location Description

TO REACH THE STATION FROM THE UNITED STATES POST OFFICE LOCATED IN GRAVEL RIDGE, ARKANSAS, GO EAST ON JACKSONVILLE CATO ROAD FOR 0.161 KM (0.10 MI) TO THE JUNCTION OF STATE HIGHWAY 107, TURN NORTH (LEFT) ON STATE HIGHWAY 107 AND GO NORTH ON STATE HIGHWAY 107 FOR 2.285 KM (1.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.70 METERS SOUTH EAST OF THE CENTER OF STATE HIGHWAY 107 AND 0.69 METERS NORTH WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600047A 2001" SET ON TOP OF AN IRON ROD 0.50 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. NOTE, THE CAP WAS BENT WHEN DRIVEN, ON THIS STATION. THE SHOT DISTANCE IS 563.956 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	600047
Geodetic Azimuth	251 56 09
Grid Azimuth	252 02 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

ELEVATION DETERMINED BY DIGITAL LEVELS FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600048	12/19/2001	AHTD	PULASKI	365	10, 061190, R60101,012119,06

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	54,296.6699	
Easting (M)	370,494.4119	
Elevation (M)*	90.994	
Northing (SFT)	178,138.3245	
Easting (SFT)	1,215,530.4164	
Elevation (SFT)*	298.535	

Convergence Angle	0	11	15.6079141
Scale Factor			1.000023685
Elevation Adjust. Factor			0.9999857203
Combined Adjust. Factor			1.0000094050

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	49	20.3089260
Longitude	92	19	21.0406296
Ellipsoid Height:			13.000
Grid Northing (Meters)			54,296.6709
Grid Easting (Meters)			370,494.3850

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	49	20.3088972	
Longitude	92	19	21.0395712	
Ellipsoid Height (M):			64.103	
Geoid Height (M):			-26.811	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 176 AND STATE HIGHWAY 365 LOCATED ON THE NORTH SIDE OF NORTH LITTLE ROCK, GO NORTH ON STATE HIGHWAY 365 FOR 5.794 KM (3.6 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF A GRAVEL DRIVE, 8.00 METERS WEST OF THE CENTER OF STATE HIGHWAY 365, AND 1.00 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600048 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 566.077 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH EAST CORNER RED METAL BUILDI NG	284	20.60	67.6
MK # 2				
MK # 3				

AZ Mark Station	600048A
Geodetic Azimuth	311 41 33
Grid Azimuth	311 52 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

3-Wire Levels ran by crew S5104 from NGS marks J 290 & K 290 on 2-21-07 in Job 061190. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600048A	12/19/2001	AHTD	PULASKI	365	10,061190,R60101,012119,06

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	54,674.5848
Easting (M)	370,072.9372
Elevation (M)*	95.003
Northing (SFT)	179,378.2003
Easting (SFT)	1,214,147.6281
Elevation (SFT)*	311.689

Convergence Angle	0	11	25.2873613
Scale Factor			1.000022906
Elevation Adjust. Factor			0.9999850912
Combined Adjust. Factor			1.0000079968

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	49	32.5266924
Longitude	92	19	37.6747608
Ellipsoid Height:			68.206
Grid Northing (Meters)			54,674.5740
Grid Easting (Meters)			370,072.9130

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	49	32.5270452
Longitude	92	19	37.6738068
Ellipsoid Height (M):			68.270
Geoid Height (M):			-26.828

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 176 AND STATE HIGHWAY 365 LOCATED ON THE NORTH SIDE OF NORTH LITTLE ROCK, GO NORTH ON STATE HIGHWAY 365 FOR 6.276 KM (3.9 MI) TO THE STATION ON THE LEFT. THE STATION IF 6.60 METERS WEST OF THE CENTER OF STATE HIGHWAY 365 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600048A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 566.077 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	141	22.00	72.2
MK # 2				
MK # 3				

AZ Mark Station	600048
Geodetic Azimuth	131 41 24
Grid Azimuth	131 52 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

3-Wire Levels ran by crew S5104 from NGS marks J 290 & K 290 on 2-21-07 in Job 061190. Verified in May 07 by crews S5104, S5108, & S5103 from NGS points K290 & J290 to G10 & RV159.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600049	12/19/2001	AHTD	PULASKI	I 40	060110, 8640_5,012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	65,579.6170	
Easting (M)	362,764.1500	
Elevation (M)*	84.187	
Northing (SFT)	215,155.7934	
Easting (SFT)	1,190,168.7155	
Elevation (SFT)*	276.204	

Convergence Angle	0	14	13.6800012
Scale Factor	1.000001901		
Elevation Adjust. Factor	0.9999867885		
Combined Adjust. Factor	0.9999886894		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	55	25.5090072
Longitude	92	24	27.0583956
Ellipsoid Height (M):	56.882		
Geoid Height (M):	-27.305		

Location Description

TO REACH THE STATION FROM THE PULASKI/FAULKNER COUNTY LINE ON I 40 GO EAST ON I 40 FOR 0.966 KM (0.6 MI) TO THE STATION. THE STATION IN ACROSS THE I 40 LANES BEHIND THE GUARD RAIL ON THE WEST BOUND LANE SIDE. THE STATION IS 7.10 METERS EAST OF THE WEST BOUND LANE EDGE OF PAVEMENT, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600049 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.861 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF GUARD RAIL	235	2.50	8.2
MK # 2	PUNCH MARK IN METAL GUARD RAIL POS T	331	13.55	44.5
MK # 3				

AZ Mark Station	600049A
Geodetic Azimuth	170 00 53
Grid Azimuth	170 15 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600049A	12/19/2001	AHTD	PULASKI	I 40	060110,8640_5,012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	64,990.3890	
Easting (M)	362,865.3800	
Elevation (M)*	83.620	
Northing (SFT)	213,222.6346	
Easting (SFT)	1,190,500.8342	
Elevation (SFT)*	274.343	

Convergence Angle	0	14	11.3034444
Scale Factor	1.000002964		
Elevation Adjust. Factor	0.9999868775		
Combined Adjust. Factor	0.9999898414		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	55	6.4022124
Longitude	92	24	22.9742568
Ellipsoid Height (M):	56.328		
Geoid Height (M):	-27.284		

Location Description

TO REACH THE STATION FROM THE PULASKI/FAULKNER COUNTY LINE ON I 40, GO EAST ON I 40 FOR 1.609 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.00 METERS WEST OF THE EDGE OF THE PAVEMENT OF THE I 40 WEST BOUND LANE, 6.75 METERS EAST OF THE EDGE OF THE PAVEMENT OF THE I 40 EAST BOUND LANE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "600049A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 597.861 METERS. ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	600049
Geodetic Azimuth	350 00 55
Grid Azimuth	350 15 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

ELEVATION ON THIS STATION WAS ARRIVED BY 3 WIRE LEVEL BY CREW S5111 FROM NGS BENCH MARK F 70 1934.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600050	12/19/2001	AHTD	PULASKI	N/A	060110, R60101,061303

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	56,358.1370
Easting (M)	376,401.3680
Elevation (M)*	172.418
Northing (SFT)	184,901.6545
Easting (SFT)	1,234,910.1548
Elevation (SFT)*	565.674

Convergence Angle	0	9	0.4770248
Scale Factor			1.000019428
Elevation Adjust. Factor			0.9999729428
Combined Adjust. Factor			0.9999923702

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	50	27.7682784	
Longitude	92	15	28.8156636	
Ellipsoid Height (M):	145.586			
Geoid Height (M):	-26.827			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF MARYLAND AVENUE AND REMOUNT ROAD, LOCATED AT THE NORTH END OF THE NORTH LITTLE ROCK AIRPORT, GO EAST ON MARYLAND AVENUE FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.00 METERS NORTH OF THE CENTER OF MARYLAND AVENUE AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600050 2002 SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	170	7.83	25.7
MK # 2	MAN HOLE COVER	135	2.20	7.2
MK # 3				

AZ Mark Station	ROCKPORT
Geodetic Azimuth	178 54 59
Grid Azimuth	179 03 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 interchange on railroad track) to G10 & RV159 (67/167 - 440 interchange on railroad track) in May 07 in job R60101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600051 Reset	7/27/2002	AHTD	PULASKI	I-30	60209,061202, 061390

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	619,878.7448	0.0020
Easting (M)	361,761.3632	0.0020
Elevation (M)*	96.953	0.0015
Northing (SFT)	2,033,718.8486	
Easting (SFT)	1,186,878.7391	
Elevation (SFT)*	318.087	

Convergence Angle	0	14	0.4356838
Scale Factor			0.999975761
Elevation Adjust. Factor			0.9999847851
Combined Adjust. Factor			0.9999605465

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	38	54.1399272
Longitude	92	25	1.6119156
Ellipsoid Height:			70.825
Grid Northing (Meters)			619,878.9296
Grid Easting (Meters)			361,761.2492

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	38	54.1339440	
Longitude	92	25	1.6074120	
Ellipsoid Height (M):			70.154	0.0040
Geoid Height (M):			-26.458	

Location Description

THE STATION IS LOCATED AT THE SOUTHWEST END OF THE VIMY RIDGE ROAD OVERPASS ON I-30 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 60051-2002 SET ON TOP 0F A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	5	7.10	23.3
MK # 2	SOUTH END OF HEADWALL	315	1.85	6.1
MK # 3	SOUTH END OF GUARDRAIL	100	3.60	11.8

AZ Mark Station	600051A
Geodetic Azimuth	266 05 18
Grid Azimuth	266 19 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SALIPORT

Comments

3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008.
********** DO NOT USE, MONUMENT WAS DISPLACED BY A CONSTRUCTION CREW PLACING NEW DITCH PAVING AND RESET NEARBY.
********** Reset in 06/2017 by crew s5113 during job 061390. Elevation based on digital levels from

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600051A	7/27/2002	AHTD	PULASKI	I-30	60209,061202,061332,061390

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	619,846.3663	0.0020
Easting (M)	361,255.2118	0.0020
Elevation (M)*	98.963	0.0012
Northing (SFT)	2,033,612.6201	
Easting (SFT)	1,185,218.1407	
Elevation (SFT)*	324.680	

Convergence Angle	0	14	11.5571720
Scale Factor	0.999975703		
Elevation Adjust. Factor	0.9999844698		
Combined Adjust. Factor	0.9999601732		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	38	53.0165652
Longitude	92	25	21.4808268
Ellipsoid Height:	72.601		
Grid Northing (Meters)	619,846.3895		
Grid Easting (Meters)	361,255.1447		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	38	53.0158200	
Longitude	92	25	21.4781880	
Ellipsoid Height (M):	72.165			0.0004
Geoid Height (M):	-26.460			

Location Description

TO REACH THE STATION FROM THE VIMY RIDGE ROAD OVERPASS ON I-30 GO WEST 0.30 MILES TO THE STATION ON THE RIGHT. THE STATION IS LOCATED 26.9 METERS NORTH OF THE CENTERLINE OF THE NORTH SERVICE ROAD,15.5 METERS WEST OF THE CENTERLINE OF THE WEST ENTRANCE TO GEYER SPRINGS FIRST BAPTIST CHURCH, AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 600051A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF WEST GATEPOST	92	10.25	33.6
MK # 2	CENTER OF MANHOLE COVER	131	19.50	64.0
MK # 3	CENTER OF MANHOLE COVER	285	27.90	91.5

AZ Mark Station	600051
Geodetic Azimuth	86 05 06
Grid Azimuth	86 19 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SALIPORT

Comments

3-wire levels ran by crew S5105 from 1st order NGS marks LR 1 NEW and R 320 in October 2008. Updated in 06/2017 by crew S5113 during job 061390. Elevation based on digital levels from NGS benchmark M 338.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600052	7/27/2002	AHTD	PULASKI	I-30	60209

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	623,189.5032	
Easting (M)	369,509.4035	
Elevation (M)*		
Northing (SFT)	2,044,580.8951	
Easting (SFT)	1,212,298.7680	
Elevation (SFT)*		

Convergence Angle	0	11	10.3816451
Scale Factor			0.999981524
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	40	42.4958088
Longitude	92	19	57.7716636
Ellipsoid Height (M):	84.380		
Geoid Height (M):	-26.404		

Location Description

THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF THE STANTON ROAD OVERPASS ON I-30. 6.60 METERS SOUTHWEST OF THE END OF THE BRIDGE, 8.80 METERS WEST OF THE CENTERLINE OF STANTON ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 600052-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	40	42.5091900
Longitude	92	19	57.7569684
Ellipsoid Height:	84.389		
Grid Northing (Meters)	623,189.9143		
Grid Easting (Meters)	369,509.7789		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	103	4.20	13.8
MK # 2	PUNCH MARK TOP OF STEEL GUARDRAIL POST	32	6.30	20.7
MK # 3				

AZ Mark Station	600052A
Geodetic Azimuth	271 15 50
Grid Azimuth	271 27 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SALIPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600052A	7/27/2002	AHTD	PULASKI	I-30	60209

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	623,214.5769	
Easting (M)	368,518.8960	
Elevation (M)*		
Northing (SFT)	2,044,663.1577	
Easting (SFT)	1,209,049.0780	
Elevation (SFT)*		

Convergence Angle	0	11	32.1611332
Scale Factor			0.999981562
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	40	43.2033312
Longitude	92	20	36.6851004
Ellipsoid Height (M):	69.375		
Geoid Height (M):	-26.402		

Location Description

THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE I-30 BRIDGE OVER GEYER SPRINGS ROAD 4.60 METERS SOUTHEAST OF THE BRIDGE ABUTMENT, 12.0 METERS SOUTH OF THE CENTERLINE OF THE EASTBOUND LANE OF I-30, AND O.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 600052A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	40	43.2167592
Longitude	92	20	36.6705600
Ellipsoid Height:	69.384		
Grid Northing (Meters)	623,214.9894		
Grid Easting (Meters)	368,519.2675		

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	600052
Geodetic Azimuth	91 15 28
Grid Azimuth	91 27 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SALIPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600053A	7/27/2002	AHTD	PULASKI	I-430	60209,060657,061332

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	624,974.0418
Easting (M)	362,966.4894
Elevation (M)*	
Northing (SFT)	2,050,435.6688
Easting (SFT)	1,190,832.5573
Elevation (SFT)*	

Convergence Angle	0	13	34.3910074
Scale Factor			0.999984675
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	41	39.6431196
Longitude	92	24	15.0733584
Ellipsoid Height (M):	71.016		
Geoid Height (M):	-26.450		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-430 AND STATE HIGHWAY 5 (STAGECOACH RD.) BRIDGE GO NORTH ON I-430 1.00 MILES TO THE STATION ON THE LEFT LOCATED IN THE CRNTER MEDIAN OF I-430 700 FEET SOUTH OF THE DAVID O DODD RD. OVERPASS, 6.40 METERS WEST OF CONCRETE SHOULDER, 3.40 METERS EAST OF CONCRETE SHOULDER, AND 1.80 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64MM DISC STAMPED 600053A-2002 SET ON TOP OF A 0.80 STEEL ROD DRIVEN TO RESISTANCE.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	41	39.6567600
Longitude	92	24	15.0596784
Ellipsoid Height:	71.026		
Grid Northing (Meters)	624,974.4608		
Grid Easting (Meters)	362,966.8393		

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	600053
Geodetic Azimuth	187 42 19
Grid Azimuth	187 55 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	SALIPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600054	4/7/2003	AHTD	PULASKI	N/A	061103, 061194

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	47,930.8029	
Easting (M)	367,180.6660	
Elevation (M)*	154.774	
Northing (SFT)	157,252.9758	
Easting (SFT)	1,204,658.5684	
Elevation (SFT)*	507.788	

Convergence Angle	0	12	30.9535085	
Scale Factor	1.000037401			
Elevation Adjust. Factor	0.9999757115			
Combined Adjust. Factor	1.0000131116			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	45	53.3664000	
Longitude	92	21	30.5217972	
Ellipsoid Height (M):	128.021			
Geoid Height (M):	-26.625			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWY 10 AND MISSISSIPPI STREET IN LITTL ROCK, GO SOUTH ON MISSISSIPPI STREET 0.45 MILES TO THE STATION ON THE RIGHT. THE STATION IS BETWEEN THE CONC SIDEWALK AND ASPHALT PARKING LOT FOR FIRST CRISTIAN CHURCH (DISCIPLES OF CHRIST). THE STATION IS ON THE WEST SIDE OF MISSISSIPPI STREET AND NORTH WEST OF THE INTERSECTION OF MISSISSIPPI AND M STREET. 9.40 METERS WEST OF THE CENTERLINE OF MISSISSIPPI STREET AND EAST 2.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600054 2003" ON TOP OF A 0.65 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONC LIGHT POLE	172	25.85	84.8
MK # 2	CONC COMBINATION POLE	4	19.20	63.0
MK # 3	FIRE HYDRANDT	179	22.50	73.8

AZ Mark Station	600054A
Geodetic Azimuth	002 50 34
Grid Azimuth	003 03 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	Russport, Rouch
Ref Mon # 2	480016
Ref Mon # 3	Butler

Comments

ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600054A	4/7/2003	AHTD	PULASKI	10	061103, 061194

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	48,680.5189	
Easting (M)	367,220.6330	
Elevation (M)*	178.286	
Northing (SFT)	159,712.6691	
Easting (SFT)	1,204,789.6934	
Elevation (SFT)*	584.927	

Convergence Angle	0	12	30.1013980
Scale Factor	1.000035737		
Elevation Adjust. Factor	0.9999720219		
Combined Adjust. Factor	1.0000077579		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	46	17.6991348
Longitude	92	21	29.0574360
Ellipsoid Height (M):	151.488		
Geoid Height (M):	-26.648		

Location Description

THE STATION IS LOCATED AT THE SOUTH EAST CORNER OF STATE HIGHWAY 10 AND MISSISSIPPI STREET IN LITTLE ROCK. EAST OF CONC SIDEWALK AND WEST OF CONC CURB. THIS IS THE NORTH WEST CORNER OF THE PARKING LOT FOR HARVEST FOODS. THE STATION IS SOUTH 17.80 METERS OF THE CENTERLINE OF HIGHWAY 10 (CANTREL ROAD) AND EAST 8.80 METERS FROM THE CENTERLINE OF MISSISSIPPI STREET AND 1.10 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600054A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	185	13.00	42.7
MK # 2	LIGHT POLE	178	9.80	32.2
MK # 3	COMBINATION POLE	69	9.50	31.2

AZ Mark Station	600054
Geodetic Azimuth	182 50 35
Grid Azimuth	183 03 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	Russport, Rouch
Ref Mon # 2	480016
Ref Mon # 3	Butler

Comments

ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600055	4/7/2003	AHTD	PULASKI	430	061103,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	636,352.9122	
Easting (M)	364,972.7044	
Elevation (M)*	93.143	
Northing (SFT)	2,087,767.8461	
Easting (SFT)	1,197,414.6144	
Elevation (SFT)*	305.586	

Convergence Angle	0	12	51.2090384
Scale Factor	1.000006908		
Elevation Adjust. Factor	0.9999853831		
Combined Adjust. Factor	0.9999922910		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	47	49.1498808
Longitude	92	22	57.9200844
Ellipsoid Height (M):	66.358		
Geoid Height (M):	-26.766		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 100 AND HIGHWAY 430, NORTH OF THE ARKANSAS RIVER, NORTH WEST OF LITTLE ROCK, GO SOUTH ON HIGHWAY 430 FOR 1.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS SOUTH 0.50 OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "600055 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH WEST CORNER OF ARKANSAS RIVE R BRIDGE	80	2.50	8.2
MK # 2	GUARD RAIL	145	0.90	3.0
MK # 3				

AZ Mark Station	600055A
Geodetic Azimuth	248 04 18
Grid Azimuth	248 17 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	Russport, Rouch
Ref Mon # 2	480016
Ref Mon # 3	Butler

Comments

ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600055A	4/7/2003	AHTD	PULASKI	430	,060657,061331,Mobie LiDA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	636,169.3635	
Easting (M)	364,511.7995	
Elevation (M)*	114.649	
Northing (SFT)	2,087,165.6534	
Easting (SFT)	1,195,902.4622	
Elevation (SFT)*	376.145	

Convergence Angle	0	13	1.3415499
Scale Factor	1.000006520		
Elevation Adjust. Factor	0.9999820081		
Combined Adjust. Factor	0.9999885280		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	47	43.1373552
Longitude	92	23	16.0238544
Ellipsoid Height (M):	87.830		
Geoid Height (M):	-26.762		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 100 AND HIGHWAY 430, NORTH OF THE ARKANSAS RIVER AND NORTH WEST OF LITTLE ROCK, GO SOUTH ON HIGHWAY 430 FOR 2.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "600055A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EDGE OF CONC	135	3.00	9.8
MK # 2	GUARD RAIL	135	2.30	7.5
MK # 3				

AZ Mark Station	600055
Geodetic Azimuth	068 04 08
Grid Azimuth	068 17 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	Russport, Rouch
Ref Mon # 2	480016
Ref Mon # 3	Butler

Comments

ELEVATION BY 3WIRE BY S5101 & S5103 FROM NGS POINT U 72. ELEVATION WAS UPDATED BY S5113 DURING JOB 060657 FROM 376.335 TO 376.145. NEW ELEV WAS EST FROM G 321.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600056	8/18/1903	AHTD	PULASKI	365	B60117,061303,061921

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	49,369.9099	0.0010
Easting (M)	374,503.6168	0.0010
Elevation (M)*	83.404	0.0003
Northing (SFT)	161,974.4461	
Easting (SFT)	1,228,683.9495	
Elevation (SFT)*	273.636	

Convergence Angle	0	9	43.4880455
Scale Factor			1.000034167
Elevation Adjust. Factor			0.9999869113
Combined Adjust. Factor			1.0000210779

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	46	40.8464184
Longitude	92	16	42.7161360
Ellipsoid Height:			55.824
Grid Northing (Meters)			49,370.3019
Grid Easting (Meters)			374,503.9850

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	46	40.8336636	
Longitude	92	16	42.7305720	
Ellipsoid Height (M):			56.672	0.0000
Geoid Height (M):			-26.732	

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	3	25.00	82.0
MK # 2	POWER POLE	339	16.00	52.5
MK # 3				

AZ Mark Station	600056A
Geodetic Azimuth	181 23 27
Grid Azimuth	181 33 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	600020,600021
Ref Mon # 2	600025
Ref Mon # 3	93600013

Comments

ELEV. EST BY DIGITAL LEVELS FROM NGS BM D 290 DURING JOB 061921 IN NOV. 2025 BY CREW S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600056A	8/18/1903	AHTD	PULASKI	365	B60117,061921

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	48,962.4073	0.0010
Easting (M)	374,492.5766	0.0010
Elevation (M)*	82.214	0.0003
Northing (SFT)	160,637.4980	
Easting (SFT)	1,228,647.7284	
Elevation (SFT)*	269.731	

Convergence Angle	0	9	43.7143109
Scale Factor			1.000035063
Elevation Adjust. Factor			0.9999870981
Combined Adjust. Factor			1.0000221606

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	46	27.6217104
Longitude	92	16	43.1052780
Ellipsoid Height:			54.681
Grid Northing (Meters)			48,962.7890
Grid Easting (Meters)			374,492.9370

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	46	27.6092940	
Longitude	92	16	43.1194116	
Ellipsoid Height (M):			55.481	0.0110
Geoid Height (M):			-26.722	

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	600056
Geodetic Azimuth	1 23 27
Grid Azimuth	1 33 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	600020,600021
Ref Mon # 2	600025
Ref Mon # 3	93600013

Comments

ELEV. EST BY DIGITAL LEVELS FROM NGS BM D 290 DURING JOB 061921 IN NOV. 2025 BY CREW S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600057A	8/18/1903	AHTD	PULASKI	N/A	B60117,061348

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	52,541.7194	
Easting (M)	373,016.3996	
Elevation (M)*	93.091	
Northing (SFT)	172,380.6244	
Easting (SFT)	1,223,804.6377	
Elevation (SFT)*	305.416	

Convergence Angle	0	10	17.7403983
Scale Factor			1.000027343
Elevation Adjust. Factor			0.9999853912
Combined Adjust. Factor			1.0000127338

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	51	5.8802580
Longitude	92	17	42.1701468
Ellipsoid Height:			65.429
Grid Northing (Meters)			57,542.1290
Grid Easting (Meters)			373,016.7290

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	48	23.6176596	
Longitude	92	17	41.5936140	
Ellipsoid Height (M):			66.355	
Geoid Height (M):			-26.734	

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	600057
Geodetic Azimuth	155 18 57
Grid Azimuth	155 29 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	600020,600021
Ref Mon # 2	600025
Ref Mon # 3	93600013

Comments

3 WIRE DIGITAL LEVELS WERE RAN FROM NGS BMs G 290 AND H 290 DURING JOB 061348 BY CREW S5101 IN MAY 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600058	8/18/1903	AHTD	PULASKI	N/A	B60117

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	50,501.5820
Easting (M)	374,543.1080
Elevation (M)*	
Northing (SFT)	165,687.2736
Easting (SFT)	1,228,813.5135
Elevation (SFT)*	

Convergence Angle	0	9	42.6574469
Scale Factor	1.000031701		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	47	17.5597800
Longitude	92	16	41.3031792
Ellipsoid Height (M):	60.254		
Geoid Height (M):	-27.622		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	334	12.70	41.7
MK # 2	GUY	352	11.30	37.1
MK # 3				

AZ Mark Station	600021
Geodetic Azimuth	153 52 49
Grid Azimuth	154 02 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	600020,600021
Ref Mon # 2	600025
Ref Mon # 3	93600013

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600059	3/16/2006	AHTD	PULASKI	430	61148,060657

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	43,157.6449	
Easting (M)	363,247.9750	
Elevation (M)*	104.579	
Northing (SFT)	141,593.0400	
Easting (SFT)	1,191,756.0646	
Elevation (SFT)*	343.107	

Convergence Angle	0	14	0.4931477
Scale Factor	1.000048352		
Elevation Adjust. Factor	0.9999835884		
Combined Adjust. Factor	1.0000319396		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	43	17.9872752
Longitude	92	24	4.3966440
Ellipsoid Height (M):	78.191		
Geoid Height (M):	-26.519		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND STATE HIGHWAY 300, SOUTHWEST OF LITTLE ROCK, GO NORTH ON I-430 FOR 0.60 MILES TO THE STATION MARK IN THE MEDIAN. EAST 1.60 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STA

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER BRIDGE NORTH BO UND LANE	93	3.84	12.6
MK # 2	NORTHEAST CORNER BRIDGE SOUTH BOU ND LANE	257	3.81	12.5
MK # 3				

AZ Mark Station	600059
Geodetic Azimuth	182 56 04
Grid Azimuth	183 10 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	600041, 600054
Ref Mon # 3	600055

Comments

3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600059A	3/16/2006	AHTD	PULASKI	430	61148

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	42,561.3859	
Easting (M)	363,214.9750	
Elevation (M)*	117.569	
Northing (SFT)	139,636.8136	
Easting (SFT)	1,191,647.7971	
Elevation (SFT)*	385.725	

Convergence Angle	0	14	1.1922157
Scale Factor	1.000049755		
Elevation Adjust. Factor	0.9999815499		
Combined Adjust. Factor	1.0000313040		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	42	58.6346328
Longitude	92	24	5.5980000
Ellipsoid Height (M):	91.194		
Geoid Height (M):	-26.506		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND STATE HIGHWAY 300, SOUTHWEST OF LITTLE ROCK, GO NORTH ON I-430 FOR 0.20 MILES TO THE STATION MARK IN THE MEDIAN. EAST 1.60 FEET OF A WITNESS POST, 15.30 FEET WEST OF TH EDGE OF CONCRETE (NORTH BOUN

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	600059
Geodetic Azimuth	2 56 03
Grid Azimuth	3 10 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	600041, 600054
Ref Mon # 3	600055

Comments

3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600060	3/16/2006	AHTD	PULASKI	630	61148,061381,061510

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	630,886.1248	
Easting (M)	365,042.0781	
Elevation (M)*	133.617	
Northing (SFT)	2,069,832.2278	
Easting (SFT)	1,197,642.2179	
Elevation (SFT)*	438.374	

Convergence Angle	0	12	49.2327491
Scale Factor	0.999995832		
Elevation Adjust. Factor	0.9999790316		
Combined Adjust. Factor	0.9999748637		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	44	51.7569144
Longitude	92	22	54.3890460
Ellipsoid Height (M):	107.132		
Geoid Height (M):	-26.584		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND I-630, IN WEST LITTLE ROCK, GO EAST ON I-630 FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT. SOUTHWEST 1.60 FEET OF A WITNESS POST. THE STATION MARK IS LOCATED ON TOP OF A FLAT TOP HILL SOUTH OF

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PEAR TREE	191	12.50	41.0
MK # 2	PEAR TREE	262	9.88	32.4
MK # 3				

AZ Mark Station	600060A
Geodetic Azimuth	95 34 03
Grid Azimuth	95 47 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	600041, 600054
Ref Mon # 3	600055

Comments

3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600060A	3/16/2006	AHTD	PULASKI	630	61148,061381,061510

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	630,835.0358	
Easting (M)	365,546.6972	
Elevation (M)*	118.275	
Northing (SFT)	2,069,664.6133	
Easting (SFT)	1,199,297.7891	
Elevation (SFT)*	388.042	

Convergence Angle	0	12	38.1248110
Scale Factor			0.999995735
Elevation Adjust. Factor			0.9999814391
Combined Adjust. Factor			0.9999771742

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	34	44	50.1596340
Longitude	92	22	34.5424296
Ellipsoid Height:			91.770
Grid Northing (Meters)			630,835.0352
Grid Easting (Meters)			365,546.6984

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD09			
Latitude	34	44	50.1596520	
Longitude	92	22	34.5424800	
Ellipsoid Height (M):			91.618	
Geoid Height (M):			-26.672	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-430 AND I-630, IN WEST LITTLE ROCK, GO EAST ON I-630 FOR 0.80 MILES TO THE STATION MARK ON THE LEFT. SOUTH 1.60 FEET OF A WITNESS POST. 37.10 FEET NORTH OF THE EDGE OF CONCRETE OF THE WEST BOUND LANE AND 2

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	253	22.04	72.3
MK # 2	MAN HOLE ON INLET	248	21.03	69.0
MK # 3				

AZ Mark Station	600060
Geodetic Azimuth	275 34 14
Grid Azimuth	275 47 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	600041, 600054
Ref Mon # 3	600055

Comments

3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600061	3/16/2006	AHTD	PULASKI	630	61148,061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	630,632.5849	
Easting (M)	367,659.7462	
Elevation (M)*	115.523	
Northing (SFT)	2,069,000.4056	
Easting (SFT)	1,206,230.3507	
Elevation (SFT)*	379.013	

Convergence Angle	0	11	51.6134134
Scale Factor			0.999995354
Elevation Adjust. Factor			0.9999818710
Combined Adjust. Factor			0.9999772250

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	44	43.8344088
Longitude	92	21	11.4406020
Ellipsoid Height:			88.977
Grid Northing (Meters)			630,632.5914
Grid Easting (Meters)			367,659.7439

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD09			
Latitude	34	44	43.8342000	
Longitude	92	21	11.4405120	
Ellipsoid Height (M):			88.892	
Geoid Height (M):			-26.654	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-630 AND UNIVERSITY AVE, (EXIT 5). IN LITTLE ROCK, GO WEST ON 630 FOR 0.65 MILES TO THE STATION MARK 0N THE RIGHT, SOUTH 2.00 FEET OF A WITNESS POST AND 29.00 FEET NORTH OF THE EDGE OF CONCRETE OF WEST BOU

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	F 98
Geodetic Azimuth	175 37 22
Grid Azimuth	175 49 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	600041, 600054
Ref Mon # 3	600055

Comments

3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600062A	1/1/2007	AHTD	PULASKI	I-40	012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	55,747.1490	
Easting (M)	368,175.0040	
Elevation (M)*	81.938	
Northing (SFT)	182,897.1047	
Easting (SFT)	1,207,920.8256	
Elevation (SFT)*	268.824	

Convergence Angle	0	12	8.8337763
Scale Factor	1.000020719		
Elevation Adjust. Factor	0.9999871414		
Combined Adjust. Factor	1.0000078602		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	50	7.1204352
Longitude	92	20	52.5087960
Ellipsoid Height (M):	55.056		
Geoid Height (M):	-26.887		

Location Description

To reach the station from jct. I-40 and SR-365 (exit-142) north west of Little Rock AR., follow I-40 east 4.5 miles to the station on the left side in the median, 11.5 feet south east of a I-40 east bound bridge, 4 feet south of top of slope to creek bank, and 8 foot east of a witness post. The station is a standard 2.5 inch cap stamped "600062A 2007" on top of a 4 foot rebar and driven 0.2 foot below the surface

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	south east end of I-40 east bound bridge	284	3.50	11.5
MK # 2	south west of I-40 west bound bridge	75	25.90	85.0
MK # 3	east end of a 24 inch cross drain pipe	165	28.50	93.5

AZ Mark Station	60068
Geodetic Azimuth	343 37 36
Grid Azimuth	343 49 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS J 290 & L 290 IN JOB 012119

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600063	1/1/2007	AHTD	PULASKI	NA	061201, XR60101

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	622,968.0279	
Easting (M)	375,771.3420	
Elevation (M)*	96.542	
Northing (SFT)	2,043,854.2715	
Easting (SFT)	1,232,843.1445	
Elevation (SFT)*	316.738	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	40	35.9011308	
Longitude	92	15	51.7607352	
Ellipsoid Height (M):	70.108			
Geoid Height (M):	-26.434			

Convergence Angle	0	8	52.6916196	
Scale Factor	0.999981165			
Elevation Adjust. Factor	0.9999848496			
Combined Adjust. Factor	0.9999660149			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 530 AND DIXON ROAD (EXIT 3), SOUTH OF LITTLE ROCK, GO EAST ON DIXON ROAD (HIGHWAY 338) APPROXIMATELY 300 FEET AND TURN LEFT ON SHAMBURGER ROAD AND GO 0.29 MILES TO THE SECOND PAVED DRIVEWAY LEADING TO THE AHTD R.E OFFICE LOCATED BEHIND THE AHTD MAINTENANCE AREA HDQRS. GO SOUTHEAST ON THIS DRIVEWAY FOR 225 FEET TO THE STATION MARK LOCATED IN THE FRONT YARD ON THE SIDE OF A SMALL HILL. THE MARK IS 61.5 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE BLDG. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600063 2008" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND AND NORTH 24.0 FEET OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SW CORNER R.E. BLDG		18.75	61.5
MK # 2	FLAGPOLE	359	16.31	53.5
MK # 3	6 FOOT CHAINLINK FENCE CORNER		26.21	86.0

AZ Mark Station	C 320
Geodetic Azimuth	344 45 22
Grid Azimuth	344 54 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHP

Comments

3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600063A	3/19/2007	AHTD	PULASKI	NA	XR60101

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	644,760.7480	
Easting (M)	378,609.0362	
Elevation (M)*	80.371	
Northing (SFT)	2,115,352.5541	
Easting (SFT)	1,242,153.1463	
Elevation (SFT)*	263.684	

Convergence Angle	0	7	51.3972801
Scale Factor	1.000025488		
Elevation Adjust. Factor	0.9999873873		
Combined Adjust. Factor	1.0000128750		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	52	23.3172696
Longitude	92	14	2.2460676
Ellipsoid Height (M):	53.439		
Geoid Height (M):	-26.932		

Location Description

To reach the station from the junction of highways 176 and 107 on the north side of North Little Rock go north on hwy-107 for 1.40 miles to Kellog road. Turn left on Kellog road and go 1.60 miles to the station on the left. 18.0 feet south of the center of Kellog road and 3.80 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "600063A 2007" set on top of a 5/8 inch by 4 foot long rebar and is 0.50 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	272	15.85	52.0
MK # 2	Gas meter	300	27.43	90.0
MK # 3	Chain link fence corner	229	15.36	50.4

AZ Mark Station	600063
Geodetic Azimuth	90 57 32
Grid Azimuth	91 05 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	600045
Ref Mon # 2	600015
Ref Mon # 3	600046

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600064	2/13/2008	AHTD	PULASKI	I 30	1, XR60101, 061277, 060395,(

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	628,240.4740	
Easting (M)	375,544.4130	
Elevation (M)*	84.192	
Northing (SFT)	2,061,152.2884	
Easting (SFT)	1,232,098.6283	
Elevation (SFT)*	276.220	

Convergence Angle	0	8	57.9832071
Scale Factor	0.999990801		
Elevation Adjust. Factor	0.9999867877		
Combined Adjust. Factor	0.9999775888		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	43	26.9821380
Longitude	92	16	1.2152208
Ellipsoid Height (M):	57.616		
Geoid Height (M):	-26.593		

Location Description

AT THE INTERSECTION OF I 30 AND ROOSEVELT RD, SOUTH EAST OF LITTLER ROCK, GO NORTH 80 FEET (CHAINED DISTANCE) FROM THE C/L OF ROOSEVELT ROAD ALONG THE WEST EDGE OF I 30 WEST BOUND LANE TO THE MARK, 59.0 FEET EAST OF THE C/L OF THE FRONTAGE ROAD AND WEST 1.90 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600063 2008" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE	69	1.16	3.8
MK # 2	C/L CONCRETE DITCH	310	8.53	28.0
MK # 3	BACK OF CURB I 30 S.	125	1.40	4.6

AZ Mark Station	600064A
Geodetic Azimuth	23 01 32
Grid Azimuth	23 10 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHP

Comments

3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600064A	2/13/2008	AHTD	PULASKI	I 30	1201, XR60101, 061277, 0603

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	628,699.9480	
Easting (M)	375,741.1070	
Elevation (M)*	90.563	
Northing (SFT)	2,062,659.7461	
Easting (SFT)	1,232,743.9485	
Elevation (SFT)*	297.122	

Convergence Angle	0	8	53.6824299
Scale Factor	0.999991675		
Elevation Adjust. Factor	0.9999857879		
Combined Adjust. Factor	0.9999774630		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	43	41.9093148
Longitude	92	15	53.5310172
Ellipsoid Height (M):	64.046		
Geoid Height (M):	-26.517		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 30 AND 21st STREET, IN LITTLE ROCK, GO WEST ON 21st FROM THE C/L ,OF I 30 FOR 132.7 FEET AS MEASURED ON THE 21 st OVERPASS TO THE STATION MARK ON THE LEFT, 35.0 FEET SOUTH OF THE C/L OF 21st STREET 35.4 FEET EAST OF THE FRONTAGE ROAD (VANCE ST.) AND SOUTH 3.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600064A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND. AHTD BM ON PARAPET WALL BEARS 56 DEGREES 7.00 FEET.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BACK OF CURB 21st	001	2.59	8.5
MK # 2	C/L METAL METAL GRATE INLET	348	3.26	10.7
MK # 3	ELECTRIC LIGHT POLE	148	18.50	60.7

AZ Mark Station	600064
Geodetic Azimuth	203 01 36
Grid Azimuth	203 10 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHP

Comments

3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600065	8/25/2008	AHTD	Pulaski	167	R60080_new

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	55,099.8290
Easting (M)	383,445.5750
Elevation (M)*	
Northing (SFT)	180,773.3556
Easting (SFT)	1,258,021.0240
Elevation (SFT)*	
Convergence Angle	0 6 19.0917566
Scale Factor	1.000021959
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 49 47.4458016
Longitude	92 10 51.4733196
Ellipsoid Height (M):	61.702
Geoid Height (M):	-26.770

Location Description

The station is located on the northeast corner of the highway 176 (Kiehl Av.) overpass over Hwy-167/67 in Sherwood. 7.80 feet from the back of the Hwy-176 curb, 3.40 feet northeast of the corner of the bridge and 1.50 feet from a witness post. The station mark is a 2 1/2 inch cap set on top of a 5/8 inch by 4 foot long rebar and is stamped "600065 2008" and is 0.20 feet below the grounds surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	End of wingwall	345	1.04	3.4
MK # 2				
MK # 3				

AZ Mark Station	600039
Geodetic Azimuth	47 59 13
Grid Azimuth	48 05 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600066	8/25/2008	AHTD	Pulaski	NA	R60080_new 061475

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	53,397.6019	
Easting (M)	380,867.0220	
Elevation (M)*		
Northing (SFT)	175,188.6322	
Easting (SFT)	1,249,561.2213	
Elevation (SFT)*		

Convergence Angle	0	7	18.0569564
Scale Factor	1.000025499		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	48	52.0429212
Longitude	92	12	32.8056588
Ellipsoid Height (M):	56.253		
Geoid Height (M):	-26.728		

Location Description

To reach the station from the junction of highways 167/67 and Wildwood Ave. in Sherwood go west on Wildwood for 0.30 miles to the station on the right just west of the intersection with Country club road in the lawn of the "Hand and Extremity Clinic" and across the street from the hospital. 21.0 feet north of the center of Wildwood Ave., 14.40 feet south of the edge of a sidewalk. There is NO witness post. The station mark is a 2 1/2 inch cap stamped "600066 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	telephone box	345	2.99	9.8
MK # 2	Combination pole	170	16.76	55.0
MK # 3	Center of manhole	177	1.06	3.5

AZ Mark Station	600066A
Geodetic Azimuth	95 58 33
Grid Azimuth	96 05 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	600045, 600045A,

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600066A	8/25/2008	AHTD	Pulaski	167	R60080_new

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	53,341.8119
Easting (M)	381,389.2870
Elevation (M)*	
Northing (SFT)	175,005.5945
Easting (SFT)	1,251,274.6858
Elevation (SFT)*	
Convergence Angle	0 7 6.0968918
Scale Factor	1.000025614
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 48 50.2680420
Longitude	92 12 12.2521572
Ellipsoid Height (M):	56.527
Geoid Height (M):	-26.726

Location Description

The station is located at the southwest corner of the southbound highway 167 bridge over Wildwood Ave. in Sherwood. 2.80 feet from the back of the curb of hwy-167 and 1.70 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "600066A 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a drop inlet	192	4.18	13.7
MK # 2	Southwest corner of bridge wingwall	56	1.82	6.0
MK # 3				

AZ Mark Station	600066
Geodetic Azimuth	275 58 45
Grid Azimuth	276 05 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	600045, 600045A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600068	2/2/2010	AHTD	Pulaski	I-40	012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	56,180.1689	
Easting (M)	368,049.4380	
Elevation (M)*	87.418	
Northing (SFT)	184,317.7708	
Easting (SFT)	1,207,508.8645	
Elevation (SFT)*	286.804	

Convergence Angle	0	12	11.7445584
Scale Factor	1.000019840		
Elevation Adjust. Factor	0.9999862815		
Combined Adjust. Factor	1.0000061212		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	50	21.1574256
Longitude	92	20	57.5110068
Ellipsoid Height (M):	60.511		
Geoid Height (M):	-26.904		

Location Description

To reach the station from the jct. of I-40 and SR-365 (exit-142) north west of Little Rock AR.,follow I-40 east 4.2 miles to the station on the right, 55 feet west of I-40 east center line, 14 feet north east of a former rest area on ramp's center line,8.5 feet east of the right of way fence and 6 feet east of a witness post. The station is a standard 2.5 inch cap stamped "6800068 2010" on top of a 4 foot rebar driven 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	east end of a gate post	250	2.30	7.5
MK # 2	weat end of a 48 inch cross drain	201	17.68	58.0
MK # 3				

AZ Mark Station	600062A
Geodetic Azimuth	163 37 33
Grid Azimuth	163 49 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

DIGITAL LEVELS WERE RAN BY CREW S5103 IN MAY 2010 FROM NGS MARKS J 290 & L 290 IN JOB 012119

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600069	7/6/2011	S5112	PULASKI	367	061261,061383

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	61,643.3210	
Easting (M)	390,412.3849	
Elevation (M)*	91.422	
Northing (SFT)	202,241.4623	
Easting (SFT)	1,280,877.9661	
Elevation (SFT)*	299.940	

Convergence Angle	0	3	39.7135135
Scale Factor	1.000009032		
Elevation Adjust. Factor	0.9999856531		
Combined Adjust. Factor	0.9999946850		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	53	20.1104401
Longitude	92	6	17.5800701
Ellipsoid Height (M):	64.498		
Geoid Height (M):	-26.924		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367, ALSO KNOWN AS TP WHITE DRIVE, FOR 5.0 MILES TO THE MARK ON THE RIGHT, 8 FEET NORTHWEST OF THE EDGE OF THE PAVEMENT OF THE EAST SERVICE ROAD AND SOUTHEAST OF THE EDGE OF PAVEMENT FOR THE NORTH BOUND LANE OF STATE HIGHWAY 167. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600069 20111" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGNAL POLE	44	20.73	68.0
MK # 2				
MK # 3				

AZ Mark Station	600026A
Geodetic Azimuth	205 06 46
Grid Azimuth	205 10 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	430017A, 430014, 430014A
Ref Mon # 3	430016, 430016A

Comments

ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600070	7/6/2011	S5112	PULASKI	367	061261,061383

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	64,982.1326	
Easting (M)	392,510.5148	
Elevation (M)*	90.160	
Northing (SFT)	213,195.5467	
Easting (SFT)	1,287,761.5806	
Elevation (SFT)*	295.799	

Convergence Angle	0	2	51.6956689
Scale Factor	1.000002846		
Elevation Adjust. Factor	0.9999858512		
Combined Adjust. Factor	0.9999886972		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	55	8.5198501
Longitude	92	4	55.0608802
Ellipsoid Height (M):	63.159		
Geoid Height (M):	-27.001		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367 ALSO KNOWN AS TP WHITE DRIVE FOR 2.4 MILES TO THE MARK ON THE RIGHT, NORTHWEST 70 FEET OF A FENCE CORNER, 63 FEET NORTHWEST OF A POWERPOLE WITH LIGHT AND WEST 60 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600070 2011" ON TOP OF A 4 FOOT REBAR DEIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	88	18.29	60.0
MK # 2				
MK # 3				

AZ Mark Station	600070A
Geodetic Azimuth	186 19 28
Grid Azimuth	186 22 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	430017A, 430014, 430014A
Ref Mon # 2	ARLR
Ref Mon # 3	430016, 430016A

Comments

ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600070A	7/6/2011	S5112	PULASKI	367	061261,061383

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	64,566.6171	
Easting (M)	392,464.1119	
Elevation (M)*	79.699	
Northing (SFT)	211,832.3096	
Easting (SFT)	1,287,609.3405	
Elevation (SFT)*	261.480	

Convergence Angle	0	2	52.7514723
Scale Factor	1.000003600		
Elevation Adjust. Factor	0.9999874927		
Combined Adjust. Factor	0.9999910927		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	54	55.0350601
Longitude	92	4	56.8752899
Ellipsoid Height (M):	52.708		
Geoid Height (M):	-26.991		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 367/321/5, SOUTHWEST OF CABOT, GO SOUTH ON OLD 367 ALSO KNOWN AS TP WHITE DRIVE FOR 2.65 MILES TO THE MARK ON THE RIGHT, 36 FEET SOUTHEAST OF THE EDGE OF THE PAVEMENT OF THE NORTHBOUND LANE OF 167 AND WEST 21.6 FEET OF THE CENTERLINE OF TP WHITE DRIVE, AND WEST 59.7 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600070A 2011" ON TOP OF A 4 FOOT REBAR DEIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	600070
Geodetic Azimuth	6 19 27
Grid Azimuth	6 22 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	430017A, 430014, 430014A
Ref Mon # 3	430016, 430016A

Comments

ELEVATION ESTABLISHED FROM DIGITAL LEVELS BY S5111 IN JUNE 2011 FROM 1ST ORDER NGS BM RV 152 TO 1ST ORDER NGS BM RV 135 UNDER P.E. JOB 061261.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600071	8/3/2011	AHTD	Pulaski	10	061331,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	636,959.8840	0.0047
Easting (M)	359,374.7125	0.0046
Elevation (M)*	87.765	

Northing (SFT)	2,089,759.2194	
Easting (SFT)	1,179,048.5359	
Elevation (SFT)*	287.942	

Convergence Angle	0	14	54.5186321	
Scale Factor	1.000008135			
Elevation Adjust. Factor	0.9999862270			
Combined Adjust. Factor	0.9999943619			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order -Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	34	48	8.1128341
Longitude	92	26	38.2374786
Ellipsoid Height (M):	60.924	0.0224	
Geoid Height (M):	-26.851	0.4862	

Location Description

Starting on I430 Go west on highway 10 for 3.3 miles to the station on the right. The station is a standard alum cap stamped(600071 2011) and is set on a 2 foot 5/8" rebar. It is 3 foot north of a witness post and 33 foot north of the CL of highway 10. Lat.34.4808 Lon.092.2637

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	36"RCP	96	30.48	100.0
MK # 2	Combo. Pole	336	12.19	40.0
MK # 3	North East corner of North side of Bridge	263	32.00	105.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital Levels were ran by crew S5102 during Job 061331 from NGS BM G 321 and F 321 during Aug. 2011

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600071A	8/3/2011	AHTD	Pulaski	10	061331,Mobie LiDAR-CLS

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	636,774.6834	0.0044
Easting (M)	359,867.9590	0.0042
Elevation (M)*	96.841	
Northing (SFT)	2,089,151.6071	
Easting (SFT)	1,180,666.7955	
Elevation (SFT)*	317.720	

Convergence Angle	0	14	43.6406175
Scale Factor	1.000007750		
Elevation Adjust. Factor	0.9999848027		
Combined Adjust. Factor	0.9999925526		

Vertical Determined By:	3rd Order -Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	34	48	2.1720100
Longitude	92	26	18.8017173
Ellipsoid Height (M):	69.991	0.0000	
Geoid Height (M):	-26.837	0.4862	

Location Description

Starting at the center of I-430 go west on highway 10 for 3 miles to the station on the left. The station is a standard alum. cap stamped (600071A 2011)and is set on a 2 foot 5/8" rebar. It is 2 foot north of a witness post and 51 foot south of the CL of highway 10. Lat.34.4802 Lon.092.2619

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combo Pole	124	16.46	54.0
MK # 2	12" RCP	234	22.25	73.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital Levels were ran by crew S5102 during Job 061331 from NGS BM G 321 and F 321 during Aug. 2011

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600072	7/1/2012	AHTD	PULASKI	176	061348,061166

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	51,598.4462	
Easting (M)	375,363.3985	
Elevation (M)*	92.795	
Northing (SFT)	169,285.9022	
Easting (SFT)	1,231,504.7499	
Elevation (SFT)*	304.444	

Convergence Angle	0	9	23.9513707
Scale Factor	1.000029335		
Elevation Adjust. Factor	0.9999854377		
Combined Adjust. Factor	1.0000147722		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	47	53.2267836	
Longitude	92	16	9.1565832	
Ellipsoid Height (M):	66.184			
Geoid Height (M):	-26.693			

Location Description

The station is just north of the junction of highway 176 and 47th street. It is a standard alum. cap and stamped 600072 - 2012 and set on a 2' - 5/8" rebar. It is 54' N. W. of the N.W. corner of pizza hut at an az. of 115. And 30' west of the cl 176. Lat. 34.4753 Lon.92.1608

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North of Man Hole	210	3.04	10.0
MK # 2	east of cl 176		9.14	30.0
MK # 3	south of cl asph dr tomexican resturant		9.45	31.0

AZ Mark Station	600020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

RESET FOR
600020A
********** ELEV.
BASED ON DIGITAL LEVELS BY S5112 IN FEB. 2016 FOR SHILCOTTS BAYOU STR. & APPRS. ELEV. RAN FROM TBM 905 FROM JOB #061348. S5112 RAN BETWEEN G 290 & 905 TO VERIFY 905 ELEV.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600073	7/20/2012	AHTD	PULASKI	NA	061348

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	52,174.2507	
Easting (M)	373,183.9443	
Elevation (M)*	92.743	
Northing (SFT)	171,175.0208	
Easting (SFT)	1,224,354.3239	
Elevation (SFT)*	304.275	

Convergence Angle	0	10	13.8797522
Scale Factor	1.000028121		
Elevation Adjust. Factor	0.9999854458		
Combined Adjust. Factor	1.0000135664		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	48	11.7096048
Longitude	92	17	34.9590516
Ellipsoid Height (M):	66.023		
Geoid Height (M):	-26.722		

Location Description

The station is approx. 165' S.W. of parkway dr. and 185' N.W. of W. military dr. It is a standard alum. cap stamped 600073

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FE corner	199	18.90	62.0
MK # 2	CP	251	14.60	47.9
MK # 3	FE corner	270	15.50	50.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

RESET for 600057 (JUST A NEW CAP)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600074	12/17/2012	AHTD	Pulaski	630	061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	630,622.0770
Easting (M)	369,348.6081
Elevation (M)*	
Northing (SFT)	2,068,965.9310
Easting (SFT)	1,211,771.2251
Elevation (SFT)*	
Convergence Angle	0 11 14.4512906
Scale Factor	0.999995345
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEIOD09		
Latitude	34	44	43.6773480
Longitude	92	20	5.0429040
Ellipsoid Height (M):	85.985		
Geoid Height (M):	-26.646		

Location Description

From Interstate 430 and 630 in West Little Rock, go East on Interstate 630 for 3.2 miles to exit 4 (Fair Park Blvd.). Follow off ramp 0.05 miles to Fair Park Blvd. Turn left, North on Fair Park Blvd. for 0.05 miles to the station on the left. The station is 32 ft. SouthWest from the end of the guardrail. And 23 ft. West of a metal witness post. The station mark is a 2 1/2 in. cap stamped "600074 2012" set ontop of a 5/8 in. by 4.0 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Traffic Signal Box	58	5.64	18.5
MK # 2	Traffic Signal Pole	120	11.37	37.3
MK # 3	9 inch Pine Tree	269	13.90	45.6

AZ Mark Station	600033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600075	6/24/2013	AHTD	PULASKI	DSEY RC	BB0611 BB0612

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	42,190.0105	0.0020
Easting (M)	382,834.8294	0.0020
Elevation (M)*	75.469	
Northing (SFT)	138,418.3928	
Easting (SFT)	1,256,017.2695	
Elevation (SFT)*	247.602	

Convergence Angle	0	6	32.5150523
Scale Factor			1.000050494
Elevation Adjust. Factor			0.9999881566
Combined Adjust. Factor			1.0000386500

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	42	48.4875396
Longitude	92	11	14.5417128
Ellipsoid Height:			48.967
Grid Northing (Meters)			42,190.0073
Grid Easting (Meters)			382,834.8214

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	42	48.4876440	
Longitude	92	11	14.5413996	
Ellipsoid Height (M):			48.869	0.0060
Geoid Height (M):			-26.599	0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 440 AND FOURCHE DAM PIKE (EXIT 5), EAST SOUTHEAST OF LITTLE ROCK, GO SOUTH ON FOURCHE DAM PIKE FOR 0.15 MILES AND TURN LEFT (EAST) ON LINDSEY ROAD AND GO 0.1 MILES TO THE MARK ON THE RIGHT, 66.6 FEET EAST OF THE CENTERLINE OF A CONCRETE DRIVE TO RYERSON, 21.2 FEET NORTH OF A 6 FOOT CHAINLINK FENCE AND SOUTH 41 FEET OF THE CENTERLINE OF LINDSEY ROAD. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600075 2013" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH LIGHT	330	21.76	71.4
MK # 2	MANHOLE	90	20.94	68.7
MK # 3				

AZ Mark Station	PAGIS 2001
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT (ARCM - SS)
Ref Mon # 2	ARLR (MSB6 - SS)
Ref Mon # 3	ARWY (P777 - SS)

Comments

ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287.
**NOTE: USED ELEV. FROM DIGITAL LEVELS AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT IN SUPERCEDED POSITION.
**********NOTE: CONSTRAINED ORTHOMETRIC HTS. ON AHTD CORS ARBT, ARLR &

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600076	12/4/2014	AHTD	PULASKI	70	61448 061475 BB0612,06167

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	48,691.1212	0.0020
Easting (M)	385,580.3053	0.0030
Elevation (M)*	76.482	0.0020

Northing (SFT)	159,747.4535	
Easting (SFT)	1,265,024.7183	
Elevation (SFT)*	250.924	

Convergence Angle	0	5	29.9723361
Scale Factor			1.000035607
Elevation Adjust. Factor			0.9999879977
Combined Adjust. Factor			1.0000236042

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEIOD12A			
Latitude	34	46	19.6030020	
Longitude	92	9	27.0610596	
Ellipsoid Height (M):			49.732	0.0120
Geoid Height (M):			-26.701	

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF INTERSTATE 440 AND STATE HIGHWAY 70, IN EAST LITTLE ROCK, GO EAST ON HIGHWAY 70 FOR 0.25 MILES TO THE MARK ON THE LEFT, 29.5 FEET NORTH OF THE CENTERLINE OF HIGHWAY, 11 FEET WEST OF THE CENTERLINE OF A GRAVEL DRIVE, 168 FEET WEST OF CENTERLINE OF EANES ROAD AND SOUTH 2 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600076 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	81	52.50	172.2
MK # 2	TELEPHONE BOX	232	56.50	185.4
MK # 3				

AZ Mark Station	600076A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR (ARLR - SS)
Ref Mon # 2	ARBT (ARBT - SS)
Ref Mon # 3	ARWY (ARWY - SS)

Comments

PREVIOUS ELEVATION (76.4952 m) WAS EST. BY 3RD ORDER DIGITAL LEVELS FROM NGS BM GALLOWAY 2 RM 1 BY CREW S5114 DURING JOB 061448 IN JAN 2015.
**********UPDATED ELEV. ESTABLISHED BY S5112 IN JAN. 2017 FOR JOB #BB0612 USING DIGITAL LEVELS FROM 1ST ORDER USC&GS BM WPY.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600076A	12/4/2014	AHTD	PULASKI	70	61448,BB0620,BB0612,06167

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	48,982.7572	0.0020
Easting (M)	386,212.3239	0.0030
Elevation (M)*	76.246	0.0017
Northing (SFT)	160,704.2626	
Easting (SFT)	1,267,098.2660	
Elevation (SFT)*	250.151	

Convergence Angle	0	5	15.5198031
Scale Factor			1.000034962
Elevation Adjust. Factor			0.9999880346
Combined Adjust. Factor			1.0000229962

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	34	46	29.0986320
Longitude	92	9	2.2242240
Ellipsoid Height (M):	49.514		0.0170
Geoid Height (M):	-26.706		

Location Description

TO REACH THE STATION MARK FROM THE INTERSECTION OF INTERSTATE 440 AND STATE HIGHWAY 70, IN EAST LITTLE ROCK, GO EAST ON HIGHWAY 70 FOR 0.65 MILES TO THE MARK ON THE RIGHT, 21.5 FEET SOUTH OF THE CENTERLINE OF HIGHWAY, 51 FEET EAST OF THE CENTERLINE OF A GRAVEL DRIVE TO QUALITY TRUCKING, AND NORTH 9 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "600076A 2014" ON TOP OF A 4.0 REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)		
Latitude	34	46	29.0988084
Longitude	92	9	2.2241916
Ellipsoid Height:	49.487		
Grid Northing (Meters)	48,982.7626		
Grid Easting (Meters)	386,212.3247		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	VINYL FENCE CORNER	195	13.00	42.7
MK # 2	COMBINATION POLE	50	25.00	82.0
MK # 3	TELEPHONE BOX	85	14.50	47.6

AZ Mark Station	600076
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARWY

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600077	1/9/2017	AHTD	Pulaski	I-440	BB0612

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	44,696.3718	0.0020
Easting (M)	384,448.1277	0.0020
Elevation (M)*		

Northing (SFT)	146,641.3465	
Easting (SFT)	1,261,310.2323	
Elevation (SFT)*		

Convergence Angle	0	5	55.7227642
Scale Factor	1.000044630		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	44	9.9132180	
Longitude	92	10	11.3134512	
Ellipsoid Height (M):	57.606			0.0030
Geoid Height (M):	-26.629			0.0030

Location Description

STA IS LOCATED AT THE NW CORNER OF THE I-440 BR OVER US-165 E OF LITTLE ROCK. 6.5' W OF GUARD RAIL.STA IS A 2 1/2" ALUM CAP STAMPED "600077 2017" SET BELOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CTR OF DI	125	2.74	9.0
MK # 2	NW CORNER OF BR	195	11.58	38.0
MK # 3				

AZ Mark Station	600077A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY, ARPB

Comments

GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600077-1	2/18/2016	AHTD	PULASKI	365	061507

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	61,727.7103	0.0020
Easting (M)	361,758.9758	0.0020
Elevation (M)*	104.357	
Northing (SFT)	202,518.3295	
Easting (SFT)	1,186,870.9064	
Elevation (SFT)*	342.378	

Convergence Angle	0	14	36.3494480
Scale Factor	1.000009016		
Elevation Adjust. Factor	0.9999836233		
Combined Adjust. Factor	0.9999926391		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	53	20.3784432	
Longitude	92	25	6.0160872	
Ellipsoid Height (M):	77.020			0.0040
Geoid Height (M):	-27.330			0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 100, IN MAUMELLE, GO WEST ON STATE HIGHWAY 365 1.6 MILES TO THE MARK ON THE RIGHT, NORTH 35.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 23.5 FEET OF THE CENTERLINE OF AN ASPHALT DRIVE WAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 600077" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	111	5.00	16.4
MK # 2	SOUTHWEST CORNER ROCK SIGN	74	25.40	83.3
MK # 3				

AZ Mark Station	600077A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600077A	1/9/2017	AHTD	Pulaski	165	BB0612

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	44,848.1461	0.0020
Easting (M)	383,977.5996	0.0020
Elevation (M)*		
Northing (SFT)	147,139.2927	
Easting (SFT)	1,259,766.5080	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	44	14.8115220	
Longitude	92	10	29.8195428	
Ellipsoid Height (M):	51.305			0.0040
Geoid Height (M):	-26.633			0.0040

Convergence Angle	0	6	6.4914428
Scale Factor	1.000044282		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM JCT OF I-440 & US-165 E OF LITTLE ROCK, GO W 0.3 MI TO

STA ON R, ATOP LEVEE.38.7' N OF US-165. 42.4' E OF RD BETWEEN LEVEE BREAK. 29' SW OF S RAIL. STA IS A 2 1/2" ALUM CAP STAMPED "600077A 2017" SET BELOW SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP	51	29.38	96.4
MK # 2				
MK # 3				

AZ Mark Station	600077
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY,ARPB

Comments

GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600077A-1	2/18/2016	AHTD	PULASKI	365	061507

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	61,901.8688	0.0020
Easting (M)	361,250.9813	0.0020
Elevation (M)*	100.832	

Northing (SFT)	203,089.7146	
Easting (SFT)	1,185,204.2611	
Elevation (SFT)*	330.812	

Convergence Angle	0	14	48.0079294
Scale Factor	1.000008691		
Elevation Adjust. Factor	0.9999841764		
Combined Adjust. Factor	0.9999928673		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	53	25.9593504
Longitude	92	25	26.0513148
Ellipsoid Height (M):	73.485	0.0040	
Geoid Height (M):	-27.345	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 100, IN MAUMELLE, GO WEST ON STATE HIGHWAY 365 1.9 MILES TO THE MARK ON THE LEFT, SOUTH 38.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 31 FEET OF THE CENTERLINE OF A DRIVE WAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2016 600077A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	281	9.50	31.2
MK # 2	FIRE HYDRANT	296	95.50	313.3
MK # 3				

AZ Mark Station	600077
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM R 290 IN FEB. 2016 FOR JOB #061507.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600078	1/9/2017	AHTD	PULASKI	I-440	BB0612

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	46,027.8413	0.0020
Easting (M)	385,108.2415	0.0020
Elevation (M)*		

Northing (SFT)	151,009.6760	
Easting (SFT)	1,263,475.9557	
Elevation (SFT)*		

Convergence Angle	0	5	40.6741056
Scale Factor	1.000041578		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	44	53.1552156	
Longitude	92	9	45.4521672	
Ellipsoid Height (M):	55.892			0.0040
Geoid Height (M):	-26.650			0.0040

Location Description

FROM JCT OF I-440 & US-70 NW OF N LITTLE ROCK, GO W ON I-440 FOR 1.6 MILES TO STA ON L, ATOP BR BANK. 7' E OF EDGE OF CONC OF EASTBOUND LANE I-440. STA IS A 2 1/2" ALUM CAP STAMPED "600078 2017" SET BELOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE OF NE CORNER OF BR	196	13.41	44.0
MK # 2				
MK # 3				

AZ Mark Station	600078A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY,ARPB

Comments

GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600078A	1/9/2017	AHTD	PULASKI	I-440	BB0612

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	45,965.4755	0.0020
Easting (M)	385,745.0348	0.0020
Elevation (M)*		

Northing (SFT)	150,805.0642	
Easting (SFT)	1,265,565.1683	
Elevation (SFT)*		

Convergence Angle	0	5	26.1041549
Scale Factor	1.000041718		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	44	51.1648620
Longitude	92	9	20.4135480
Ellipsoid Height (M):	47.999	0.0040	
Geoid Height (M):	-26.646	0.0040	

Location Description

FROM JCT OF I-440 & US-70 NW OF N LITTLE ROCK, GO W ON I-440 FOR 1.6 MILES TO FAULKNER LAKE RD. GO EAST ON FAULKNER LAKE RD 0.4 MILES TO STA ON L. 57' N OF CENTER OF FAULKNER LAKE RD. 20' E OF BRETT RD. STA IS A 2 1/2" ALUM CAP STAMPED "600078A 2017" SET BELOW SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SE OF FE CORNER	307	19.02	62.4
MK # 2	W OF TB BOX	130	5.79	19.0
MK # 3	W OF GUY WIRE	135	6.19	20.3

AZ Mark Station	600078
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY,ARPB

Comments

GPS DERIVED ELEV. BASED ON ORTHOMETRIC HEIGHT CONSTRAINTS ON AHTD CORS ARBT, ARLR & ARPB IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600079	5/18/2021	AHTD S5101	Pulaski	107	061738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	62,730.3674	0.0030
Easting (M)	384,302.5689	0.0030
Elevation (M)*	118.806	
Northing (SFT)	205,807.8804	
Easting (SFT)	1,260,832.6781	
Elevation (SFT)*	389.781	

Convergence Angle	0	5	59.7716544
Scale Factor	1.000007005		
Elevation Adjust. Factor	0.9999813559		
Combined Adjust. Factor	0.9999883608		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	34	53	55.1066820
Longitude	92	10	18.2715132
Ellipsoid Height (M):	91.723	0.0000	
Geoid Height (M):	-27.082		

Location Description

From the intersection of state highway107 and state highway 89 West, East of Mayflower, Pulaski County, AR. Travel South along state highway 107 3.5 miles to the station on the Left. The station is 10.36M (34ft Northeast of the centerline of state highway 107 and 0.1 miles Northwest of the intersection of state highway 107 and Arnold Drive. The station is a standard 3 inch aluminum cap stamped 600079 (2021) set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length and is at the north edge of a gravel parking area.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Chain Link Fence	40	16.46	54.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600079A	5/18/2021	AHTD S5101	Pulaski	107	061738

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	63,004.2231	0.0040
Easting (M)	383,992.7987	0.0030
Elevation (M)*	109.232	
Northing (SFT)	206,706.3553	
Easting (SFT)	1,259,816.3737	
Elevation (SFT)*	358.372	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	34	54	3.9756132	
Longitude	92	10	30.4915296	
Ellipsoid Height (M):	82.025			0.0090
Geoid Height (M):	-27.093			

Convergence Angle	0	6	6.8824713
Scale Factor	1.000006496		
Elevation Adjust. Factor	0.9999828582		
Combined Adjust. Factor	0.9999893541		

Location Description

From the intersection of state highway107 and state highway 89 West, East of Mayflower, Pulaski County, AR. Travel South along state highway 107 3.25 miles to the station on the Left. The station is 8.53M (28ft Northeast of the centerline of state highway 107 aThe station is a standard 3 inch aluminum cap stamped 600079A (2021) set flush with the ground surface on top of a 5/8 inch rebar 4 foot in length and is at the north edge of a gravel driveway.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Norteast end of a 42" RCP	140	21.33	70.0
MK # 2	Southwest end of a 42" RCP	164	25.30	83.0
MK # 3	Chainlink Fence	220	21.64	71.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY S5105 FROM NGS BM WAX 1939 DURING JOB 061738 IN MAY 2021.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600080	6/8/2022	AHTD (S5101)	Pulaski	nterstate 4	061677, 61759

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	50,197.1781	0.0010
Easting (M)	389,341.9688	0.0010
Elevation (M)*	74.717	
Northing (SFT)	164,688.5751	
Easting (SFT)	1,277,366.1093	
Elevation (SFT)*	245.134	

Convergence Angle	0	4	3.9333558
Scale Factor	1.000032297		
Elevation Adjust. Factor	0.9999882746		
Combined Adjust. Factor	1.0000205712		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	47	8.6441460
Longitude	92	6	59.2021332
Ellipsoid Height (M):	47.972	0.0050	
Geoid Height (M):	-26.724	0.0000	

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 391, Dick Jeter Road, (Exit 161) , Galloway, Pulaski County, Arkansas. Travel West along Interstate 40, 0.7 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 600080, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 96 ft. south of the South edge of the shoulder of Eastbound Interstate 40 and 15 ft North of a 6 ft. chainlink fence, in front of Maveric Transportation Company.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Concrete Right of Way Marker	170	4.27	14.0
MK # 2	Power Pole	98	12.80	42.0
MK # 3	Utility Marker (FOC)	252	40.54	133.0

AZ Mark Station	600080A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600080A	6/8/2022	AHTD (S5101)	Pulaski	nterstate 4	061677, 61759

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	50,261.5642	0.0010
Easting (M)	389,836.6391	0.0010
Elevation (M)*	73.972	
Northing (SFT)	164,899.8152	
Easting (SFT)	1,278,989.0401	
Elevation (SFT)*	242.691	

Convergence Angle	0	3	52.6133706	
Scale Factor			1.000032155	
Elevation Adjust. Factor			0.9999883915	
Combined Adjust. Factor			1.0000205461	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	34	47	10.7520108	
Longitude	92	6	39.7486152	
Ellipsoid Height (M):			47.234	0.0050
Geoid Height (M):			-26.725	0.0000

Location Description

To reach from the intersection of Interstate 40 and Arkansas State Highway 391, Dick Jeter Road, (Exit 161) , Galloway, Pulaski County, Arkansas. Travel West along Interstate 40, 1.0 miles to the station on the Right. The station is a standard 2.5in. aluminum ARDOT GPS cap stamped 600080A, 2022 set just below ground surface on top of a 5/8in. rebar 4 ft. in length. The station is 96 ft. south of the South edge of the shoulder of Eastbound Interstate 40 and 15 ft North of a 6 ft. chainlink fence, in front of Maveric Transportation Company.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Concrete Right of Way Marker	174	4.27	14.0
MK # 2	Utility Marker (FOC)	205	4.27	14.0
MK # 3	Underpavement Drain Outlet	10	27.43	90.0

AZ Mark Station	600080
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Three wire level were ran by S5101 in August of 2022 during jobs 061677 & 061759. Based on NGS BMs WPY, METO 2, LONOKE W BASE.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600081	2/2/2026	AHTD	Pulaski	5	061929

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	621,590.0095	0.0010
Easting (M)	361,249.8382	0.0010
Elevation (M)*	90.858	
Northing (SFT)	2,039,333.2228	
Easting (SFT)	1,185,200.5108	
Elevation (SFT)*	298.090	

Convergence Angle	0	14	11.8335399
Scale Factor	0.999978676		
Elevation Adjust. Factor	0.9999857416		
Combined Adjust. Factor	0.9999644179		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	39	49.5999972	
Longitude	92	25	21.9719748	
Ellipsoid Height (M):	64.369			0.0070
Geoid Height (M):	-26.489			

Location Description

To reach from the intersection of Highway 5 and Highway 338, in Little Rock, travel south along highway 5 for 0.6 miles to the station on the left (east) side of the highway. The station is a 2.5in aluminum ARDOT GPS cap stamped 600081, 2025 set on top of a 5/8in rebar 4ft in length set just below the surface of the ground. The station is 36ft east of the centerline of highway 5 and 2ft west of the west edge of the sidewalk.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East end 24" STS	240	4.50	14.8
MK # 2	Power Pole with Light Arm	12	30.00	98.4
MK # 3				

AZ Mark Station	600081A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	LR 2
Ref Mon # 3	

Comments

ELEV WAS EST BY STATIC OBS DURING JOB 061929 BY CREW S5102 IN FEB 2026.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
600081A	2/2/2026	AHTD	Pulaski	5	061929

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD83 (2011)

Northing (M)	621,899.4211	0.0010
Easting (M)	361,406.1985	0.0010
Elevation (M)*	89.519	

Northing (SFT)	2,040,348.3507	
Easting (SFT)	1,185,713.5029	
Elevation (SFT)*	293.696	

Convergence Angle	0	14	8.4243319
Scale Factor	0.999979213		
Elevation Adjust. Factor	0.9999859518		
Combined Adjust. Factor	0.9999651651		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	39	59.6619360
Longitude	92	25	15.8807388
Ellipsoid Height (M):	63.035		0.0070
Geoid Height (M):	-26.494		

Location Description

To reach from the intersection of Highway 5 and Highway 338, in Little Rock, travel south along highway 5 for 0.4 miles to the station on the left (east) side of the highway. The station is a 2.5in aluminum ARDOT GPS cap stamped 600081A, 2025 set on top of a 5/8in rebar 4ft in length set just below the surface of the ground. The station is 40ft east of the centerline of highway 5 and 30ft south of a driveway to a church.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fire Hydrant	275	10.00	32.8
MK # 2				
MK # 3				

AZ Mark Station	600081
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	LR 2
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN TO 600081A HOLDING STATIC DERIVED ELEV AT 600081 DURING JOB 061929 BY CREW S5012 IN FEB 2026.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610001	1/28/2003	AHTD	RANDOLPH	62	100358

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	213,973.8690	
Easting (M)	488,821.6770	
Elevation (M)*	101.425	
Northing (SFT)	702,012.6019	
Easting (SFT)	1,603,742.4520	
Elevation (SFT)*	332.757	

Convergence Angle	0	34	30.4451105
Scale Factor	1.000004964		
Elevation Adjust. Factor	0.9999840834		
Combined Adjust. Factor	0.9999890474		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	28.6368912
Longitude	91	0	41.9174892
Ellipsoid Height (M):	73.192		
Geoid Height (M):	-28.180		

Location Description

TO REACH THE STATION FROM STATE HIGHWAY 62 AND STATE HIGHWAY 166 WEST, WEST OF POCAHONTAS, GO WEST ON HIGHWAY 62 0.31 MILES TO THE STATION ON THE LEFT, 9.10 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 19.40 METERS EAST OF AN ASPH. DRIVE AND 4.65 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610001 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	100	19.60	64.3
MK # 2				
MK # 3				

AZ Mark Station	610001A
Geodetic Azimuth	272 25 29
Grid Azimuth	271 50 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	BUTLER, 480016
Ref Mon # 3	MEM2 CORS

Comments

3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610001A	1/28/2003	AHTD	RANDOLPH	62	100358

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,092.9998	
Easting (M)	496,755.1690	
Elevation (M)*	127.670	
Northing (SFT)	702,403.4502	
Easting (SFT)	1,629,770.9170	
Elevation (SFT)*	418.863	

Convergence Angle	0	37	35.3920919	
Scale Factor	1.000005030			
Elevation Adjust. Factor	0.9999799648			
Combined Adjust. Factor	0.9999849947			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	15	29.8027008	
Longitude	90	55	24.0840840	
Ellipsoid Height (M):	99.435			
Geoid Height (M):	-28.177			

Location Description

TO REACH THE STATION FROM STATE HIGHWAY 166 WEST AND STATE HIGHWAY 62, WEST OF POCAHONTAS, GO WEST ON HIGHWAY 62 0.85 MILES TO THE STATION ON THE RIGHT, THE STATION IS 5.8 METERS SOUTH OF A NETWIRE FENCE WITH ONE STRAN OF BARBWIRE, 10.0 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 5.7 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610001A 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610001
Geodetic Azimuth	92 25 09
Grid Azimuth	91 50 58

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	BUTLER, 480016
Ref Mon # 3	MEM2 CORS

Comments

3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610002	1/28/2003	AHTD	RANDOLPH	166	100091,100993

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	220,411.6554	0.0030
Easting (M)	496,686.0752	0.0030
Elevation (M)*	87.428	
Northing (SFT)	723,133.9061	
Easting (SFT)	1,629,544.2317	
Elevation (SFT)*	286.838	

Convergence Angle	0	37	35.3920919
Scale Factor			1.000017218
Elevation Adjust. Factor			0.9999862798
Combined Adjust. Factor			1.0000034976

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	18	54.8074296
Longitude	90	55	24.0855420
Ellipsoid Height:			59.062
Grid Northing (Meters)			220,411.6391
Grid Easting (Meters)			496,686.0390

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	18	54.8079480	
Longitude	90	55	24.0840840	
Ellipsoid Height (M):			58.991	0.0140
Geoid Height (M):			-28.424	0.0140

Location Description

TO REACH THE STATION FROM STATE HIGHWAY 67 AND STATE HIGHWAY 166 EAST, NORTHEAST OF POCAHONTAS, GO EAST ON HIGHWAY 166 2.57 MILES TO THE STATION ON THE LEFT, 10.50 METERS NORTH OF THE CENTER OF THE HIGHWAY, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610002 2003" ON TO OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610002A
Geodetic Azimuth	65 09 41
Grid Azimuth	64 32 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARJB

Comments

ELEVATION BY 3WIRE BY AET FROM NGS POINT H 41 Updated in August 2019 for job 100993 by crew S5101 for job 100993

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610002A	1/28/2003	AHTD	RANDOLPH	166	100091,100993

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	220,757.7780	0.0030
Easting (M)	497,412.8684	0.0030
Elevation (M)*	81.977	

Northing (SFT)	724,269.4767	
Easting (SFT)	1,631,928.7191	
Elevation (SFT)*	268.952	

Convergence Angle	0	37	52.4335478
Scale Factor			1.000017898
Elevation Adjust. Factor			0.9999871354
Combined Adjust. Factor			1.0000050331

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	19	5.7767988
Longitude	90	54	54.7996248
Ellipsoid Height:			-28.311
Grid Northing (Meters)			220,757.7580
Grid Easting (Meters)			497,412.8320

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	19	5.7774360	
Longitude	90	54	54.7981560	
Ellipsoid Height (M):			53.535	0.0140
Geoid Height (M):			-28.332	0.0140

Location Description

TO REACH THE STATION FROM STATE HIGHWAY 67 AND STATE HIGHWAY 166 EAST, NORTH EAST OF POCAHONTAS, GO EAST ON HIGHWAY 166 FOR 3.25 MILES TO THE STATION ON THE RIGHT, 13.80 METERS SOUTH OFF THE CENTER OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "610002A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610002
Geodetic Azimuth	245 09 58
Grid Azimuth	244 32 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARJB

Comments

ELEVATION BY 3WIRE BY AET FROM NGS POINT H 41 Updated in August 2019 for job 100993 by crew S5101 for job 100993

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610003	10/18/2004	AHTD	RANDOLPH	67	100608 101140 100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	214,669.8040
Easting (M)	492,985.0100
Elevation (M)*	85.033
Northing (SFT)	704,295.8486
Easting (SFT)	1,617,401.6536
Elevation (SFT)*	278.980
Convergence Angle	0 36 7.6564466
Scale Factor	1.000006177
Elevation Adjust. Factor	0.9999866557
Combined Adjust. Factor	0.9999928326

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 15 49.8261816
Longitude	90 57 54.8587476
Ellipsoid Height (M):	56.813
Geoid Height (M):	-28.206

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 67, IN POCAHONTAS, GO NORTH ON STATE HIGHWAY 67 0.7 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 16.85 METERS OF THE CENTERLINE OF THE HIGHWAY AND WEST 0.50 METRERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "610003 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF CONC SLAB	205	4.90	16.1
MK # 2	COMBINATION POLE	240	37.10	121.7
MK # 3	MANHOLE	210	37.10	121.7

AZ Mark Station	610003A
Geodetic Azimuth	224 53 33
Grid Azimuth	224 17 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	610002,610002A
Ref Mon # 2	BUTLER
Ref Mon # 3	Q 313, MEM2

Comments

3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41

Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610003A	10/18/2004	AHTD	RANDOLPH	67	100608

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,266.0910	
Easting (M)	492,591.1790	
Elevation (M)*	88.973	
Northing (SFT)	702,971.3336	
Easting (SFT)	1,616,109.5598	
Elevation (SFT)*	291.906	

Convergence Angle	0	35	58.3776956	
Scale Factor	1.000005433			
Elevation Adjust. Factor	0.9999860374			
Combined Adjust. Factor	0.9999914703			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	15	36.8633052	
Longitude	90	58	10.8043824	
Ellipsoid Height (M):	60.756			
Geoid Height (M):	-28.199			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 62 AND STATE HIGHWAY 67, IN POCAHONTAS, GO NORTH ON STATE HIGHWAY 67 0.4 MILES TO THE STATION MARK ON THE LEFT, NORTHWEST 11.0 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 METRERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "610003A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610003
Geodetic Azimuth	44 53 23
Grid Azimuth	44 17 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	610002,610002A
Ref Mon # 2	BUTLER
Ref Mon # 3	Q 313, MEM2

Comments

3-wire elevations ran in Job#100608 by S5101 in May 2005 from NGS G-41

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610004	4/15/2013	AHTD	RANDOLPH	67	100759 101140 100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	214,242.4635	
Easting (M)	492,578.4508	
Elevation (M)*	87.985	
Northing (SFT)	702,893.8157	
Easting (SFT)	1,616,067.8007	
Elevation (SFT)*	288.663	

Convergence Angle	0	35	58.0752514	
Scale Factor	1.000005390			
Elevation Adjust. Factor	0.9999861925			
Combined Adjust. Factor	0.9999915824			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	36	15	36.1011240	
Longitude	90	58	11.3241360	
Ellipsoid Height (M):	59.786			
Geoid Height (M):	-28.199			

Location Description

TO REACH THIS MARK FROM THE INTERSECTION OF HWY. 62 AND HWY. 67, IN POCAHONTAS. GO NORTH ON HWY. 67 FOR 0.4 MILES TO THE STATION MARK ON THE LEFT. THE STATION MARK IS A 2 1/2 IN CAP STAMPED "610004 2013" ON A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. UNDER THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF POCAHONTAS WATER AND SEWER BUILDING	303	13.72	45.0
MK # 2	SOUTHEAST CORNER OF CINDER BLOCK BUILDING	5	15.24	50.0
MK # 3	SOUTH END OF RAILING	202	12.19	40.0

AZ Mark Station	610003
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation was established by S5102 from TBM 908 from job 100608 during job 100759 in April 2013.

Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610005	6/19/2017	CLS	RANDOLPH	rth Park	100877 101140

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	215,827.9268	0.0020
Easting (M)	491,309.0404	0.0020
Elevation (M)*	121.786	0.0047
Northing (SFT)	708,095.4565	
Easting (SFT)	1,611,903.0767	
Elevation (SFT)*	399.558	

Convergence Angle	0	35	28.8678628
Scale Factor	1.000008387		
Elevation Adjust. Factor	0.9999808882		
Combined Adjust. Factor	0.9999892751		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	16	27.9630840
Longitude	90	59	1.5173520
Ellipsoid Height (M):	93.441	0.0120	
Geoid Height (M):	-28.333		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 90 AND NORTH PARK ST., GO SOUTH ON NORTH PARK ST. 0.48 KM (0.3 MI) TO THE STATION ON THE RIGHT. THE STATION IS 24 FT. WEST OF THE CENTERLINE OF NORTH PARK ST. THE MONUMENT IS A 2.5 IN. CAP STAMPED "610005 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610005A
Geodetic Azimuth	2 58 44
Grid Azimuth	2 23 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARBT

Comments

Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610005A	6/19/2017	CLS	RANDOLPH	orth Park S	100877 101140

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	216,220.5381	0.0020
Easting (M)	491,325.4105	0.0020
Elevation (M)*	119.750	0.0148
Northing (SFT)	709,383.5487	
Easting (SFT)	1,611,956.7843	
Elevation (SFT)*	392.881	

Convergence Angle	0	35	29.3439983
Scale Factor	1.000009133		
Elevation Adjust. Factor	0.9999812076		
Combined Adjust. Factor	0.9999903405		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	16	40.6942680
Longitude	90	59	0.6991080
Ellipsoid Height (M):	91.398		0.0120
Geoid Height (M):	-28.338		

Location Description

TO REACH STATION FROM THE JUNCTION OF HIGHWAY 90 AND NORTH PARK ST., GO SOUTH ON NORTH PARK ST FOR 280 FT. TO THE STATION ON THE LEFT. THE STATION IS 21.5 FT. EAST OF THE CENTERLINE OF NORTH PARK ST. THE MOUNUMENT IS A 2.5 IN. CAP STAMPED "610005A 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610005
Geodetic Azimuth	182 58 45
Grid Azimuth	182 23 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARBT

Comments

Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610006	7/19/2017	CLS	RANDOLPH	ntry Club	100877 101140

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	217,326.2325	0.0010
Easting (M)	490,224.0071	0.0010
Elevation (M)*	134.933	0.0052
Northing (SFT)	713,011.1478	
Easting (SFT)	1,608,343.2633	
Elevation (SFT)*	442.694	

Convergence Angle	0	35	3.9284152
Scale Factor	1.000011275		
Elevation Adjust. Factor	0.9999788250		
Combined Adjust. Factor	0.9999900998		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	36	17	16.9305000
Longitude	90	59	44.3757840
Ellipsoid Height:	106.572		
Grid Northing (Meters)	217,326.2297		
Grid Easting (Meters)	490,224.0142		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	17	16.9305936	
Longitude	90	59	44.3760648	
Ellipsoid Height (M):	106.575			0.0050
Geoid Height (M):	-28.329			0.0050

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 90 AND COUNTRY CLUB RD., GO NORTH ON COUNTRY CLUB RD. 328 FT. TO THE STATION ON THE RIGHT. THE STATION IS 40 FT. EAST OF THE CENTERLINE OF COUNTRY CLUB RD. THE MONUMENT IS A 2.5 IN. CAP STAMPED "610006 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610006A
Geodetic Azimuth	347 01 40
Grid Azimuth	346 26 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHL (MODP)
Ref Mon # 2	ARJB (ARPG)
Ref Mon # 3	ARPG, MODP (ARBT)

Comments

SUPERCEDED ELEV. BASED ON NGS POINT H 41 WITH A GEOID 12B HT. OF -28.3481m.
**********UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5101 IN JUNE 2023 FOR JOB #101140 FROM NGS PUBLISHED 2ND ORDER BM H 41

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610006A	7/19/2017	CLS	RANDOLPH	ntry Club	100877 101140

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	217,682.0530	0.0010
Easting (M)	490,138.2089	0.0010
Elevation (M)*	127.878	0.0052
Northing (SFT)	714,178.5356	
Easting (SFT)	1,608,061.7737	
Elevation (SFT)*	419.548	

Convergence Angle	0	35	2.0123832
Scale Factor			1.000011966
Elevation Adjust. Factor			0.9999799321
Combined Adjust. Factor			0.9999918979

SUPERCEDED CONTROL

Horizontal Datum			NAD83 (2011)
Latitude	36	17	28.5019800
Longitude	90	59	47.6684520
Ellipsoid Height:			99.529
Grid Northing (Meters)			217,682.0504
Grid Easting (Meters)			490,138.2172

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	36	17	28.5020664	
Longitude	90	59	47.6687868	
Ellipsoid Height (M):			99.516	0.0050
Geoid Height (M):			-28.334	0.0050

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAY 90 AND COUNTRY CLUB RD., GO NORTH ON COUNTRY CLUB RD. 0.47 KM (0.29 MI.) TO THE STATION ON THE LEFT. THE STATION IS 12 FT. WEST OF THE CENTERLINE OF COUNTRY CLUB RD. THE MONUMENT IS A 2.5 IN. CAP STAMPED "610006A 2017". SET ON TOP OF A 4 FT. 5/8 IN. REBAR.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610006
Geodetic Azimuth	167 01 38
Grid Azimuth	166 26 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHL (MODP)
Ref Mon # 2	ARJB (ARPG)
Ref Mon # 3	ARPG, MODP (ARBT)

Comments

SUPERCEDED ELEV. BASED ON NGS POINT H 41 WITH A GEOID 12B HT. OF -28.3529m.
**********UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5101 IN JUNE 2023 FOR JOB #101140 FROM NGS PUBLISHED 2ND ORDER BM H 41

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610007	11/4/2020	ARDOT	RANDOLPH	I 57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	203,758.9611	0.0020
Easting (M)	497,334.1928	0.0020
Elevation (M)*		
Northing (SFT)	668,499.1915	
Easting (SFT)	1,631,670.5975	
Elevation (SFT)*		

Convergence Angle	0	37	46.2416668
Scale Factor			0.999987226
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	9	54.3455856
Longitude	90	55	5.4389712
Ellipsoid Height (M):	54.895		0.0080
Geoid Height (M):	-28.179		0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 67, IN WALNUT RIDGE, GO NORTH ON HIGHWAY 67 FOR 6.28 MILES TO GUM STUMP ROAD AND TURN RIGHT HERE AND GO 2.25 MILES TO THE MARK ON THE RIGHT, 14.8" WEST OF A FIELD ROAD AND 45.4" SOUTHEAST OF THE C/L OF GUM STUMP ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610007" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	245	16.20	53.1
MK # 2	24" CPP	310	6.40	21.0
MK # 3				

AZ Mark Station	610007A
Geodetic Azimuth	269° 23 ' 56"
Grid Azimuth	268° 46 ' 10"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610007A	11/4/2020	ARDOT	RANDOLPH	I 57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	203,750.1192	0.0020
Easting (M)	496,922.5759	0.0020
Elevation (M)*		

Northing (SFT)	668,470.1827	
Easting (SFT)	1,630,320.1511	
Elevation (SFT)*		

Convergence Angle	0	37	36.6564642
Scale Factor	0.999987219		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	9	54.2051496	
Longitude	90	55	21.9112464	
Ellipsoid Height (M):	55.508			0.0080
Geoid Height (M):	-28.177			0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 67, IN WALNUT RIDGE, GO NORTH ON HIGHWAY 67 FOR 6.28 MILES TO GUM STUMP ROAD AND TURN RIGHT HERE AND GO 2.0 MILES TO THE MARK ON THE RIGHT, 15' EAST OF A DRIVEWAY AND 15' SOUTHEAST OF THE C/L OF GUM STUMP ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610007" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	238	5.43	17.8
MK # 2	POWER POLE	115	7.41	24.3
MK # 3				

AZ Mark Station	610007
Geodetic Azimuth	89° 23 ' 47"
Grid Azimuth	88° 46 ' 10"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610008	11/4/2020	ARDOT	RANDOLPH	I 57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,985.6201	0.0010
Easting (M)	497,329.8376	0.0020
Elevation (M)*		

Northing (SFT)	679,085.3219	
Easting (SFT)	1,631,656.3089	
Elevation (SFT)*		

Convergence Angle	0	37	46.9659231
Scale Factor	0.999992497		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	11	39.0258060
Longitude	90	55	4.1943288
Ellipsoid Height (M):	53.331	0.0080	
Geoid Height (M):	-28.231	0.0080	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 67, IN WALNUT RIDGE, GO NORTH ON HIGHWAY 67 FOR 8.28 MILES TO LONG ROAD ROAD AND TURN RIGHT HERE AND GO 2.28 MILES TO THE MARK ON THE LEFT, 31.8' EAST OF THE C/L OF A FIELD ROAD AND 24.4" SOUTH OF THE C/L OF LONG ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610008" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	273	52.10	170.9
MK # 2	GUY POLE	350	49.50	162.4
MK # 3	WATERWELL	104	30.18	99.0

AZ Mark Station	610008A
Geodetic Azimuth	269° 12 ' 11"
Grid Azimuth	268° 34 ' 24"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610008A	11/4/2020	ARDOT	RANDOLPH	I 57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,976.3619	0.0020
Easting (M)	496,958.0716	0.0030
Elevation (M)*		

Northing (SFT)	679,054.9473	
Easting (SFT)	1,630,436.6066	
Elevation (SFT)*		

Convergence Angle	0	37	38.3052370
Scale Factor	0.999992488		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	11	38.8577616	
Longitude	90	55	19.0778124	
Ellipsoid Height (M):	53.394			0.0090
Geoid Height (M):	-28.229			0.0090

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 34 AND STATE HIGHWAY 67, IN WALNUT RIDGE, GO NORTH ON HIGHWAY 67 FOR 8.28 MILES TO LONG ROAD AND TURN RIGHT HERE AND GO 2.02 MILES TO THE MARK ON THE RIGHT, 62.5' EAST OF A DRIVEWAY AND 15.4" SOUTH OF THE C/L OF LONG ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610008A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAILBOX 1952 LONG ROAD	283	27.07	88.8
MK # 2				
MK # 3				

AZ Mark Station	610008
Geodetic Azimuth	89° 12 ' 3"
Grid Azimuth	88° 34 ' 24"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610009	11/3/2020	AHTD	Randolph	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,229.0593	0.0020
Easting (M)	498,283.8051	0.0020
Elevation (M)*		

Northing (SFT)	689,726.5054	
Easting (SFT)	1,634,786.1172	
Elevation (SFT)*		

Convergence Angle	0	38	10.0222108
Scale Factor			0.999998037
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	13	23.9058228	
Longitude	90	54	24.5718468	
Ellipsoid Height (M):			53.425	0.0080
Geoid Height (M):			-28.283	0.0080

Location Description

THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 304 IN POCAHONTAS, AR. GO EAST ON STATE HWY 304 FOR 2.81 MILES TO ATORRD ROAD ON THE RIGHT. GO SOUTH ON ATORRD ROAD FOR 0.99 MILES TO MARTIN ROAD. GO EAST ON MARTIN ROAD FOR 0.05 MILES TO THE STATION ON THE RIGHT. THE POINT IS 19.5' SOUTH OF THE CL OF MARTIN ROAD.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS LINE CHECK VALVE	308	17.43	57.2
MK # 2	GRAIN SILO	120	12.19	40.0
MK # 3	WATER WELL	192	12.62	41.4

AZ Mark Station	610009A
Geodetic Azimuth	272° 12 ' 11"
Grid Azimuth	271° 34 ' 1"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610009A	11/3/2020	AHTD	Randolph	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	210,241.3549	0.0020
Easting (M)	497,834.3152	0.0020
Elevation (M)*		
Northing (SFT)	689,766.8452	
Easting (SFT)	1,633,311.4158	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	13	24.4662384	
Longitude	90	54	42.5631744	
Ellipsoid Height (M):	53.282			0.0080
Geoid Height (M):	-28.280			0.0080

Convergence Angle	0	37	59.5530730
Scale Factor	0.999998067		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 304 IN POCAHONTAS, AR. GO EAST ON STATE HWY 304 FOR 2.81 MILES TO ATORRD ROAD ON THE RIGHT. GO SOUTH ON ATORRD ROAD FOR 0.99 MILES TO MARTIN ROAD. GO WEST ON MARTIN ROAD FOR 0.23 MILES TO THE STATION ON THE RIGHT. THE POINT IS 27.3' NORTH OF THE CL OF MARTIN ROAD, AND 42.4' EAST OF A FIELD ROAD.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	250	6.09	20.0
MK # 2	GAS LINE MARKER	263	19.93	65.4
MK # 3				

AZ Mark Station	610009
Geodetic Azimuth	92° 12 ' 0"
Grid Azimuth	91° 34 ' 1"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610010	11/4/2020	AHTD	Randolph	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,949.7798	0.0010
Easting (M)	499,035.3934	0.0020
Elevation (M)*		

Northing (SFT)	701,933.5692	
Easting (SFT)	1,637,251.9532	
Elevation (SFT)*		

Convergence Angle	0	38	28.5030585
Scale Factor	1.000004719		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	15	24.3381132	
Longitude	90	53	52.8123084	
Ellipsoid Height (M):	51.944			0.0080
Geoid Height (M):	-28.332			0.0080

Location Description

THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 166 IN POCAHONTAS, AR. GO NORTH ON US HWY 67/US HWY 62 FOR 5.31 MILES TO SKAGGS FERRY ROAD ON THE RIGHT.GO SOUTH ON SKAGGS FERRY ROAD FOR 4.80 MILES TO A GATE AND A FIELD ROAD TO THE RIGHT. GO THROUGH THE GATE AND NORTH THE FIELD ROAD FOR 0.30 MILES TO A FIELD ROAD ON THE LEFT. GO WEST ON THE FIELD ROAD FOR 0.74 MILES TO THE STATION ON THE RIGHT. THE POINT IS 14.2' NORTH OF THE CL OF FIELD ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610010A
Geodetic Azimuth	269° 36 ' 55"
Grid Azimuth	268° 58 ' 27"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610010A	11/4/2020	AHTD	Randolph	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,942.5605	0.0020
Easting (M)	498,632.2684	0.0020
Elevation (M)*		
Northing (SFT)	701,909.8839	
Easting (SFT)	1,635,929.3672	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	15	24.2499852	
Longitude	90	54	8.9626860	
Ellipsoid Height (M):	52.846			0.0080
Geoid Height (M):	-28.330			0.0080

Convergence Angle	0	38	19.1051679
Scale Factor	1.000004714		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 166 IN POCAHONTAS, AR. GO NORTH ON US HWY 67/US HWY 62 FOR 5.31 MILES TO SKAGGS FERRY ROAD ON THE RIGHT.GO SOUTH ON SKAGGS FERRY ROAD FOR 4.80 MILES TO A GATE AND A FIELD ROAD TO THE RIGHT. GO THROUGH THE GATE AND NORTH THE FIELD ROAD FOR 0.30 MILES TO A FIELD ROAD ON THE LEFT. GO WEST ON THE FIELD ROAD FOR 1.00 MILES TO THE STATION ON THE LEFT. THE POINT IS 10.6' SOUTH OF THE CL OF FIELD ROAD.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER PUMP ON BANK OF CURRENT RIVE R	0	20.73	68.0
MK # 2				
MK # 3				

AZ Mark Station	610010
Geodetic Azimuth	89° 36 ' 46"
Grid Azimuth	88° 58 ' 27"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610011	11/3/2020	AHTD	Randolph	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	215,968.4607	0.0020
Easting (M)	501,497.3747	0.0020
Elevation (M)*		

Northing (SFT)	708,556.5248	
Easting (SFT)	1,645,329.3035	
Elevation (SFT)*		

Convergence Angle	0	39	26.4264017
Scale Factor	1.000008443		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	16	28.9203528	
Longitude	90	52	13.2704112	
Ellipsoid Height (M):	52.560			0.0060
Geoid Height (M):	-28.363			0.0060

Location Description

THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 166 IN POCAHONTAS, AR. GO NORTH ON US HWY 67/US HWY 62 FOR 5.31 MILES TO SKAGGS FERRY ROAD ON THE RIGHT.GO SOUTH ON SKAGGS FERRY ROAD FOR 2.00 MILES TO A FIELD ROAD ON THE RIGHT. GO WEST ON THE FIELD ROAD FOR 0.47 MILES TO THE STATION ON THE LEFT. THE POINT IS 15.0' SOUTH OF THE FIELD ROAD AND 49.9' EAST OF A FIELD ENTRANCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" CMP	280	3.35	11.0
MK # 2				
MK # 3				

AZ Mark Station	610011A
Geodetic Azimuth	91° 41 ' 21"
Grid Azimuth	91° 1 ' 55"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610011A	11/3/2020	AHTD	Randolph	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	215,961.2392	0.0020
Easting (M)	501,898.3059	0.0030
Elevation (M)*		

Northing (SFT)	708,532.8323	
Easting (SFT)	1,646,644.6919	
Elevation (SFT)*		

Convergence Angle	0	39	35.7714082
Scale Factor	1.000008421		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	16	28.5365640	
Longitude	90	51	57.2109156	
Ellipsoid Height (M):	52.232			0.0070
Geoid Height (M):	-28.365			0.0070

Location Description

THE INTERSECTION OF US HWY 67/US HWY 62 AND STATE HWY 166 IN POCAHONTAS, AR. GO NORTH ON US HWY 67/US HWY 62 FOR 5.31 MILES TO SKAGGS FERRY ROAD ON THE RIGHT.GO SOUTH ON SKAGGS FERRY ROAD FOR 2.00 MILES TO A FIELD ROAD ON THE RIGHT. GO WEST ON THE FIELD ROAD FOR 0.22 MILES TO THE STATION ON THE LEFT. THE POINT IS 22.7' SOUTH OF THE FIELD ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRRIGATION GATE	16	15.48	50.8
MK # 2				
MK # 3				

AZ Mark Station	610011
Geodetic Azimuth	271° 41 ' 31"
Grid Azimuth	271° 1 ' 55"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610012	11/3/2020	AHTD	Randolph	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,951.0217	0.0010
Easting (M)	503,925.8827	0.0020
Elevation (M)*		

Northing (SFT)	715,060.9770	
Easting (SFT)	1,653,296.8335	
Elevation (SFT)*		

Convergence Angle	0	40	23.5853745
Scale Factor	1.000012195		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	17	32.3205396
Longitude	90	50	35.0420928
Ellipsoid Height (M):	54.116		0.0050
Geoid Height (M):	-28.387		0.0050

Location Description

THE INTERSECTION OF US HWY. 67/US HWY. 62 AND STATE HWY.166. GO NORTH ON US HWY 67/US HWY. 62 FOR 5.96 MILES TO BRIMNAGE ROAD ON THE RIGHT. GO SOUTH ON BRIMNAGE ROAD FOR 0.40 MILES TO THE STATION ON THE RIGHT. THE POINT IS 17.2' WEST OF THE CL OF BRIMNAGE ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	175	18.01	59.1
MK # 2	POWER POLE WITH GY	234	17.31	56.8
MK # 3				

AZ Mark Station	610012A
Geodetic Azimuth	181° 3 ' 57"
Grid Azimuth	180° 23 ' 33"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610012A	11/3/2020	AHTD	Randolph	I-57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,562.7089	0.0020
Easting (M)	503,923.2227	0.0020
Elevation (M)*		

Northing (SFT)	713,786.9874	
Easting (SFT)	1,653,288.1065	
Elevation (SFT)*		

Convergence Angle	0	40	23.4169580
Scale Factor			1.000011442
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid18		
Latitude	36	17	19.7246004
Longitude	90	50	35.3315184
Ellipsoid Height (M):	53.261		0.0050
Geoid Height (M):	-28.384		0.0050

Location Description

THE INTERSECTION OF US HWY. 67/US HWY. 62 AND STATE HWY.166. GO NORTH ON US HWY 67/US HWY. 62 FOR 5.96 MILES TO BRIMNAGE ROAD ON THE RIGHT. GO SOUTH ON BRIMNAGE ROAD FOR 0.67 MILES TO THE STATION ON THE LEFT. THE POINT IS 11.3' EAST OF THE CL OF BRIMNAGE ROAD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	90	6.10	20.0
MK # 2	GAS LINE MARKER	180	30.50	100.1
MK # 3				

AZ Mark Station	610012
Geodetic Azimuth	1° 3 ' 56"
Grid Azimuth	0° 23 ' 33"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610013	11/4/2020	ARDOT	RANDOLPH	I 57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	219,986.7603	0.0020
Easting (M)	506,815.6259	0.0020
Elevation (M)*		

Northing (SFT)	721,739.8961	
Easting (SFT)	1,662,777.5993	
Elevation (SFT)*		

Convergence Angle	0	41	31.5420897
Scale Factor	1.000016135		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	18	37.2429684	
Longitude	90	48	38.2577364	
Ellipsoid Height (M):	58.884			0.0060
Geoid Height (M):	-28.414			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67/62 AND STATE HIGHWAY 166, NORTHEAST OF POCAHONTAS, GO NORTH ON HIGHWAY 67/62 FOR 7.36 MILES TO LUTRELL CEMETERY ROAD AND TURN RIGHT HERE AND GO 0.72 MILES TO THE MARK ON THE RIGHT, 34.4' SOUTH OF THE C/L OF THE ROAD AND 61.7' WEST OF THE C/L OF QUAPAW TRAIL. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/GUY	130	17.71	58.1
MK # 2	POWWER POLE W/GUY	31	19.05	62.5
MK # 3	GAS PIP	340	16.31	53.5

AZ Mark Station	610013A
Geodetic Azimuth	93° 45 ' 15"
Grid Azimuth	93° 3 ' 43"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610013A	11/4/2020	ARDOT	RANDOLPH	I 57	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	219,962.6765	0.0020
Easting (M)	507,265.8390	0.0020
Elevation (M)*		

Northing (SFT)	721,660.8812	
Easting (SFT)	1,664,254.6735	
Elevation (SFT)*		

Convergence Angle	0	41	42.0357518
Scale Factor	1.000016076		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	18	36.2848968	
Longitude	90	48	20.2242636	
Ellipsoid Height (M):	58.273		0.0060	
Geoid Height (M):	-28.414		0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67/62 AND STATE HIGHWAY 166, NORTHEAST OF POCAHONTAS, GO NORTH ON HIGHWAY 67/62 FOR 7.36 MILES TO LUTRELL CEMETERY ROAD AND TURN RIGHT HERE AND GO 1.0 MILES TO THE MARK ON THE RIGHT, 35.7" EAST OF THE C/L OF THE ROAD AND 20.6" NORTH OF THE C/L OF A FIELD ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 610013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER PUMP	181	13.59	44.6
MK # 2	WATER WELL	135	5.33	17.5
MK # 3				

AZ Mark Station	610013
Geodetic Azimuth	273° 45 ' 26"
Grid Azimuth	273° 3 ' 43"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610014	11/4/2020	ARDOT	RANDOLPH	JTHRIE I	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	221,514.1537	0.0020
Easting (M)	509,708.7079	0.0020
Elevation (M)*		
Northing (SFT)	726,751.0193	
Easting (SFT)	1,672,269.3192	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	19	25.6419768	
Longitude	90	46	41.5395732	
Ellipsoid Height (M):	58.891			0.0050
Geoid Height (M):	-28.442			0.0050

Convergence Angle	0	42	39.4602871
Scale Factor	1.000019137		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

610014 TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 IN REYNO, GO SOUTH ON US-67 0.5 TO DUCK LEVEE RD, THEN GO SOUTH 2.0 MILES TO LAWNBITD RD, THEN GO WEST 1.0 MILES TO GUTHRIE RD, THEN GO SOUTH 0.1 MILES TO STATION ON THE RIGHT. 46' WEST OF C/L GUTHRIE RD. 37' SOUTH OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "610014 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	610014A
Geodetic Azimuth	178° 37 ' 12"
Grid Azimuth	177° 54 ' 32"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610014A	11/4/2020	ARDOT	RANDOLPH	JTHRIE I	100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	221,147.6188	0.0020
Easting (M)	509,722.0909	0.0020
Elevation (M)*		
Northing (SFT)	725,548.4793	
Easting (SFT)	1,672,313.2266	
Elevation (SFT)*		

Convergence Angle	0	42	39.6663646	
Scale Factor	1.000018394			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid18			
Latitude	36	19	13.7463564	
Longitude	90	46	41.1854268	
Ellipsoid Height (M):	58.733			0.0060
Geoid Height (M):	-28.436			0.0060

Location Description

610014A TO REACH THE STATION MARK FROM THE JCT OF US-67 & SR-328 IN REYNO, GO SOUTH ON US-67 0.5 TO DUCK LEVEE RD, THEN GO SOUTH 2.0 MILES TO LAWNBITD RD, THEN GO WEST 1.0 MILES TO GUTHRIE RD, THEN GO SOUTH 0.3 MILES TO STATION ON THE LEFT. 17' EEST OF C/L GUTHRIE RD. THE MARK IS A STANDARD 2½" CAP STAMPED "610014A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	330	32.31	106.0
MK # 2				
MK # 3				

AZ Mark Station	610014
Geodetic Azimuth	358° 37 ' 12"
Grid Azimuth	357° 54 ' 32"

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARPG
Ref Mon # 3	MODP, MOKE

Comments

STATIC DERIVED ELEVATION IS BASED ON ORTHOMETRIC HT. CONSTRAINTS ON NGS PUBLISHED 1ST ORDER BM V 25 AND ON ARDOT CORS SITES ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610015	1/10/2023	AHTD (S5101)	Randolph	67	101140 100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,710.8352	0.0010
Easting (M)	494,415.0597	0.0010
Elevation (M)*	99.293	
Northing (SFT)	710,992.1318	
Easting (SFT)	1,622,093.4084	
Elevation (SFT)*	325.763	

Convergence Angle	0	36	41.4989132
Scale Factor	1.000010007		
Elevation Adjust. Factor	0.9999844180		
Combined Adjust. Factor	0.9999944248		

Vertical Determined By:	None				
Elevation Datum:					
Geoid Datum:	GEOID18				
Latitude	36	16	55.5476124		
Longitude	90	56	56.7000996		
Ellipsoid Height (M):	70.953			0.0020	
Geoid Height (M):	-28.340			0.0000	

Location Description

To reach from the Intersection of US hwy 62 and US hwy 67 located in downtown Pocahontas, Randolph County Arkansas. Travel North along US hwy 67, 2.3 miles to the station on the left. The Station is a standard 2.5 inch ARDOT aluminum GPS cap stamped 610015, 2023, set flush with the ground on top of 5/8 inch rebar, 4 foot in length. The station is 63 feet (19.2M) Northwest of the centerline of US Hwy 67 and 3 feet (.91M) Northwest of the Northwest edge of the old concrete Hwy.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole	314	10.67	35.0
MK # 2	Double Down Guy	221	7.62	25.0
MK # 3				

AZ Mark Station	610015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610015A	1/10/2023	AHTD (S5101)	Randolph	67	101140 100512

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	216,842.2083	0.0010
Easting (M)	494,879.1848	0.0010
Elevation (M)*	83.191	
Northing (SFT)	711,423.1451	
Easting (SFT)	1,623,616.1255	
Elevation (SFT)*	272.935	

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	36	16	59.6483436	
Longitude	90	56	38.0471352	
Ellipsoid Height (M):	54.845			0.0020
Geoid Height (M):	-28.344			0.0000

Convergence Angle	0	36	52.3530569
Scale Factor	1.000010250		
Elevation Adjust. Factor	0.9999869448		
Combined Adjust. Factor	0.9999971947		

Location Description

From the Intersection of US hwy 62 and US hwy 67 located in downtown Pocahontas, Randolph County Arkansas. Travel North along US hwy 67, 2.6 miles to the station on the Right. The Station is a standard 2.5 inch ARDOT aluminum GPS cap stamped 610015A, 2023, set flush with the ground on top of 5/8 inch rebar, 4 foot in length. The station is 20 feet (6.1M) South of the centerline of US Hwy 67 and 5 feet (1.52M) Southeast of the Southeast Bridge corner.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Southeast Bridge Corner	282	1.52	5.0
MK # 2	Power Pole	147	24.08	79.0
MK # 3	Telephone Handhole	1787	23.77	78.0

AZ Mark Station	610015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital level ran from NGS POINT H 41 by S5101 in JUNE of 2023 during job 101140

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610016	8/10/2023	ARDOT	RANDOLPH	62	101150

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,464.2078	0.0010
Easting (M)	483,875.7111	0.0010
Elevation (M)*		
Northing (SFT)	697,059.6551	
Easting (SFT)	1,587,515.5622	
Elevation (SFT)*		

Convergence Angle	0	32	34.8275951	
Scale Factor	1.000002288			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	36	14	41.2270692	
Longitude	91	4	0.6074508	
Ellipsoid Height (M):	98.366			0.0060
Geoid Height (M):	-28.277			0.0060

Location Description

TO REACH FROM THE JCT. OF HWY 62 AND HWY 67 IN POCAHONTAS, HEAD WEST ON HWY 62 FOR 5.8 MILES TO THE STATION ON THE LEFT. THE STATION IS 46.7FT SOUTH OF THE CENTERLINE OF HWY 62, AND 20.6FT EAST OF THE CENTERLINE OF A PAVED DW TO A HOUSE. THE STATION MARK IS A 2 1/2IN CAP STAMPED "610016 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAILBOX	200	11.60	38.1
MK # 2	POWER POLE	259	22.80	74.8
MK # 3	BUILDING CORNER	353	14.30	46.9

AZ Mark Station	610016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHL
Ref Mon # 3	ARM3, ARPG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610016A	8/10/2023	ARDOT	RANDOLPH	62	101150

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,397.5044	0.0010
Easting (M)	483,456.5289	0.0010
Elevation (M)*		

Northing (SFT)	696,840.8124	
Easting (SFT)	1,586,140.2952	
Elevation (SFT)*		

Convergence Angle	0	32	25.0439549
Scale Factor	1.000002174		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	14	39.1916688
Longitude	91	4	17.4207432
Ellipsoid Height (M):	73.265	0.0050	
Geoid Height (M):	-28.279		

Location Description

TO REACH FROM THE JCT. OF HWY 62 AND HWY 67 IN POCAHONTAS, HEAD WEST ON HWY 62 FOR 6.05 MILES TO THE STATION ON THE LEFT. THE STATION IS 47.4FT SOUTH OF THE CENTERLINE OF HWY 62, AND 43.4FT WEST OF THE CENTERLINE OF A PAVED DRIVEWAY. THE STATION MARK IS A 2 1/2IN CAP STAMPED "610016A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAILBOX	316	20.40	66.9
MK # 2	POWER POLE	341	7.90	25.9
MK # 3				

AZ Mark Station	610016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHL
Ref Mon # 3	ARM3, ARPG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610017	10/3/2023	ARDOT	Randolph	115	101140

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,634.9700	0.0010
Easting (M)	492,526.2258	0.0010
Elevation (M)*	107.702	

Northing (SFT)	714,024.0641	
Easting (SFT)	1,615,896.4591	
Elevation (SFT)*	353.351	

Convergence Angle	0	35	57.6851614
Scale Factor	1.000011827		
Elevation Adjust. Factor	0.9999830984		
Combined Adjust. Factor	0.9999949252		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	17	26.1747024
Longitude	90	58	11.9945100
Ellipsoid Height (M):	79.344	0.0030	
Geoid Height (M):	-28.342	0.0030	

Location Description

To reach from the Jct. of Hwy 90 and 115 in Pocahontas go North on Hwy 115 for 1.3 miles to the station on the West/Left. The station is 62ft South of the center of the North driveway to the Pocahontas Animal Control, and 25ft North of the South driveway. The station mark is a 2 1/2in. cap stamped "610017 2023" set ontop of a 5/8in by 4ft rebar driven 0.10in below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" CMP	1	9.80	32.2
MK # 2	18" CMP	177	9.40	30.8
MK # 3				

AZ Mark Station	610017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHL
Ref Mon # 2	ARJB
Ref Mon # 3	ARPG, MODP

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5101 IN JUNE 2023 FOR JOB #101140 FROM NGS PUBLISHED 2ND ORDER BM H 41

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
610017A	10/3/2023	ARDOT	Randolph	115	101140

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	217,254.0985	0.0010
Easting (M)	492,578.6457	0.0010
Elevation (M)*	98.622	

Northing (SFT)	712,774.4882	
Easting (SFT)	1,616,068.4401	
Elevation (SFT)*	323.562	

Convergence Angle	0	35	58.8145319
Scale Factor	1.000011089		
Elevation Adjust. Factor	0.9999845233		
Combined Adjust. Factor	0.9999956121		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	17	13.8011712
Longitude	90	58	10.0536744
Ellipsoid Height (M):	70.274	0.0030	
Geoid Height (M):	-28.338	0.0030	

Location Description

To reach from the Jct. of Hwy 90 and 115 in Pocahontas go North on Hwy 115 for 1.05 miles to the station on the East/Right. The station is 45ft South of the center of driveway for Copper Safe Storage. The station mark is a 2 1/2in. Cap stamped "610017A 2023" set ontop of a 5/8in by 4ft rebar driven 0.10in below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NW Cor Storage BU	38	22.30	73.2
MK # 2	North end of GD in PK	170	9.10	29.9
MK # 3	S end 18" CMP under DW	1	10.10	33.1

AZ Mark Station	610017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHL
Ref Mon # 2	ARJB
Ref Mon # 3	ARPG, MODP

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5101 IN JUNE 2023 FOR JOB #101140 FROM NGS PUBLISHED 2ND ORDER BM H 41

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620001A	3/23/1990	AHTD	SALINE	183	R60085

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	612,739.3199	
Easting (M)	354,728.2410	
Elevation (M)*		
Northing (SFT)	2,010,295.5854	
Easting (SFT)	1,163,804.2373	
Elevation (SFT)*		

Convergence Angle	0	16	34.2560139
Scale Factor	0.999964320		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	35	1.4265672	
Longitude	92	29	36.4383744	
Ellipsoid Height (M):				
Geoid Height (M):	-27.318			

Location Description

THE STATION IS 0.4 MILES SOUTH OF AHTD GPS STATION 90620001, AROUND CURVE, 240 FEET SOUTH OF HILL STREET, .5.5 FEET WEST OF A FENCE, 35.5 FEET EAST OF THE CENTERLINE OF HWY. 183 AND SOUTH OF A WIRE GATE GOING INTO A FIELD ACROSS HWY. 183 FROM CONVEYER BUILDING MATERIALS CO..

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 10" CEDAR	170	21.86	71.7
MK # 2	NBC IN POWER POLE	277	26.71	87.6
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90620001
Geodetic Azimuth	14 55 07
Grid Azimuth	15 11 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	PERKINS
Ref Mon # 2	GOOSEPOND 2
Ref Mon # 3	PAGIS 1006

Comments

Old point number 90620001A. Mark has been disturbed as per MSK 05/15/07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620002	3/23/1990	AHTD	SALINE	183	R60085

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	615,652.4189	
Easting (M)	354,647.1070	
Elevation (M)*		
Northing (SFT)	2,019,852.9777	
Easting (SFT)	1,163,538.0502	
Elevation (SFT)*		

Convergence Angle	0	16	36.3468817
Scale Factor	0.999968813		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	36	35.9516916
Longitude	92	29	40.1741304
Ellipsoid Height (M):			
Geoid Height (M):	-27.382		

Location Description

THE STATION IS NEAR THE FRONT ENTRANCE OF GRACE BAPTIST CHURCH, 35 FEET NORTH OF PRICKETT ROAD ON A GRASSY AREA BETWEEN THE CHURCH AND THE HANDICAPPED PARKING AREA AND 230 FEET WEST OF HWY. 138.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT AT JCT OF SIDEWALKS	355	4.40	14.4
MK # 2	PUNCH POINT AT JCT OF SIDEWALKS	115	6.51	21.4
MK # 3	NBC IN COMBINATION POLE	226	9.01	29.6

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	PERKINS
Ref Mon # 2	GOOSEPOND 2
Ref Mon # 3	PAGIS 1006

Comments

Old point number 90620002
**********REPORTED DESTROYED 2012**********

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620004	9/1/1993	AHTD	SALINE	30	60209

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	606,966.4659	
Easting (M)	337,736.0420	
Elevation (M)*	135.706	
Northing (SFT)	1,991,355.8135	
Easting (SFT)	1,108,055.6645	
Elevation (SFT)*	445.229	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	31	50.9245536	
Longitude	92	40	41.6850600	
Ellipsoid Height (M):	108.268			
Geoid Height (M):	-27.438			

Convergence Angle	0	22	46.5883883	
Scale Factor	0.999955903			
Elevation Adjust. Factor	0.9999787038			
Combined Adjust. Factor	0.9999346077			

Location Description

FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30, GO WEST ON I-30 FOR 0.322 KM (0.20 MILES) TO THE STATION ON THE LEFT, THE STATION IS SET IN THE ASPHALT MEDIAN CROSSOVER, 6.341 METERS FROM THE INSIDE EDGE OF THE WESTBOUND CONCRETE LANE, 5.731 METERS FROM THE INSIDE EDGE OF THE EASTBOUND CONCRETE LANE AND 4.00 METERS SOUTH OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 12" GUM	80	30.71	100.8
MK # 2	NBC IN DOUBLE 6" GUM	103	30.31	99.4
MK # 3	NBC IN 16" PINE	119	34.43	113.0

AZ Mark Station	9362004A AZ. MK.
Geodetic Azimuth	208 07 16.85
Grid Azimuth	208 30 57.71

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	MALEPORT
Ref Mon # 3	SALIPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620004A	9/1/1993	AHTD	SALINE	30	9,061256,061330,BB0602,CA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	606,705.7436	
Easting (M)	337,594.4271	
Elevation (M)*	135.803	
Northing (SFT)	1,990,500.4271	
Easting (SFT)	1,107,591.0496	
Elevation (SFT)*	445.548	

Convergence Angle	0	22	49.6585070
Scale Factor			0.999955548
Elevation Adjust. Factor			0.9999786885
Combined Adjust. Factor			0.9999342374

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	31	42.4328808
Longitude	92	40	47.1702504
Ellipsoid Height:			109.477
Grid Northing (Meters)			606,705.7449
Grid Easting (Meters)			337,594.4320

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	31	42.4328376	
Longitude	92	40	47.1704448	
Ellipsoid Height (M):	109.378			
Geoid Height (M):	-26.432			

Location Description

FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30, GO WEST ON I-30 FOR 0.628 KM (0.39 MILES) TO THE STATION ON THE LEFT, THE STATION IS IN THE GRASS MEDIAN, 10.502 METERS EAST OF THE EDGE OF THE WESTBOUND CONCRETE LANES, 7.765 METERS WEST OF THE EDGE OF THE EASTBOUND LANES CONCRETE AND 0.610 METERS NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN6" PINE	295	28.56	93.7
MK # 2	NBC IN DOUBLE 12" PINE	314	28.58	93.8
MK # 3	NBC IN 16" GUM	349	42.74	140.2

AZ Mark Station	93620004
Geodetic Azimuth	28 07 13.750
Grid Azimuth	28 30 57.7095

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

PREVIOUS SUPERCEDED INFORMATION:
HORIZONTAL DATUM: NAD 83 (1986)
LATITUDE: 34-31-42.4439400
LONGITUDE: 92-40-47.1613692
ELLIPSOID HEIGHT: 108.385 GRID
NORTHING (METERS): 606,706.0841 GRID
EASTING (METERS): 337,594.6608

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620004A-1		AHTD	Saline	30	061256

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	606,706.0839	
Easting (M)	337,594.6610	
Elevation (M)*	135.819	
Northing (SFT)	1,990,501.5436	
Easting (SFT)	1,107,591.8170	
Elevation (SFT)*	445.600	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	31	42.4439328	
Longitude	92	40	47.1613620	
Ellipsoid Height (M):	108.385			
Geoid Height (M):	-27.435			

Convergence Angle	0	22	49.6534235
Scale Factor	0.999955549		
Elevation Adjust. Factor	0.9999786860		
Combined Adjust. Factor	0.9999342360		

Location Description

FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30, GO WEST ON I-30 FOR 0.628 KM (0.39 MILES) TO THE STATION ON THE LEFT, THE STATION IS IN THE GRASS MEDIAN, 10.502 METERS EAST OF THE EDGE OF THE WESTBOUND CONCRETE LANES, 7.765 METERS WEST OF THE EDGE OF THE EASTBOUND LANES CONCRETE AND 0.610 METERS NORTH OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN6" PINE	295	28.56	93.7
MK # 2	NBC IN DOUBLE 12" PINE	314	28.58	93.8
MK # 3	NBC IN 16" GUM	349	42.74	140.2

AZ Mark Station	620029
Geodetic Azimuth	27 10 24
Grid Azimuth	27 33 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	Saliport, Saliport Az.
Ref Mon # 2	ARCM, ARHP
Ref Mon # 3	CSAL

Comments

Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620005	9/1/1993	AHTD	SALINE	30	60209

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	608,303.6549
Easting (M)	341,677.5490
Elevation (M)*	109.746
Northing (SFT)	1,995,742.9078
Easting (SFT)	1,120,987.0920
Elevation (SFT)*	360.058

Convergence Angle	0	21	20.2634486
Scale Factor			0.999957781
Elevation Adjust. Factor			0.9999827776
Combined Adjust. Factor			0.9999405593

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	32	35.1410892	
Longitude	92	38	7.4481900	
Ellipsoid Height (M):	82.343			
Geoid Height (M):	-27.404			

Location Description

FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30 SOUTH OF BENTON, GO EAST ON I-30 FOR 4.15 KM (2.58 MILES) TO THE STATION ON THE RIGHT, THE STATION IS CLOSE TO A DESERTED GAS STATION, 3.825 METERS SOUTH OF THE EDGE OF THE EASTBOUND CONCRETE LANES AND 13.90 METERS NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN CONCRETE GUARD RAIL POST	145	14.20	46.6
MK # 2	"X" CUT IN CONCRETE GUARD RAIL POST	170	13.44	44.1
MK # 3	"X" CUT IN CONCRETE GUARD RAIL POST	190	15.11	49.6

AZ Mark Station	9362005A AZ. MK.
Geodetic Azimuth	252 40 48.207
Grid Azimuth	253 02 59.4419

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	MALEPORT
Ref Mon # 3	SALIPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620005A	9/1/1993	AHTD	SALINE	30	60209

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	608,124.7478
Easting (M)	341,091.0660
Elevation (M)*	113.995
Northing (SFT)	1,995,155.9434
Easting (SFT)	1,119,062.9390
Elevation (SFT)*	373.999

Convergence Angle	0	21	33.1126556
Scale Factor			0.999957527
Elevation Adjust. Factor			0.9999821108
Combined Adjust. Factor			0.9999396385

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	29.2162884
Longitude	92	38	30.4058832
Ellipsoid Height (M):	86.586		
Geoid Height (M):	-27.409		

Location Description

FROM THE HWY. 70 OVERPASS (EXIT 111) ON I-30 SOUTH OF BENTON, GO EAST ON I-30 3.54 KM (2.20 MILES) TO THE STATION ON THE RIGHT, THE STATION IS 17.663 METERS NORTH OF A SERVICE ROAD, 4.039 METERS SOUTH OF THE EDGE OF THE EASTBOUND CONCRETE LANES AND 1.50 METERS NORTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	93620005
Geodetic Azimuth	72 40 35.18967
Grid Azimuth	73 02 08.386346

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	MALEPORT
Ref Mon # 3	SALIPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620011	3/22/1994	AHTD	SALINE	N/A	R60093

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	597,032.6999	
Easting (M)	343,279.7390	
Elevation (M)*	78.516	
Northing (SFT)	1,958,764.7829	
Easting (SFT)	1,126,243.6104	
Elevation (SFT)*	257.598	

Convergence Angle	0	20	43.6022104
Scale Factor			0.999943645
Elevation Adjust. Factor			0.9999876784
Combined Adjust. Factor			0.9999313241

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	26	29.6770920	
Longitude	92	37	1.9455132	
Ellipsoid Height (M):	51.332			
Geoid Height (M):	-27.184			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 229 & 291 IN TRASKWOODGO EASTERLY ON HWY-291 FOR 4.02 KM. (2.5 MI.) TO A JUNCTION WITH " HOLY CIRCLE ROAD "ON THE RIGHT. GO RIGHT AND SOUTHWESTERLY ON " HOLY CIRCLE ROAD " FOR 0.08 KM.(0.05 MI.) TO THE STATION ON THE RIGHT. 5.70 METERS NORTHWEST OF THE CENTER OF " HOLY CIRCLE ROAD ", 18.0 METERS NORTHEAST OF A FIELD DRAINAGE DITCH AND 0.54 METERSNORTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED " 620011 " SET ON TOP OF AN IRON ROD 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	620011A
Geodetic Azimuth	196 45 56.97075
Grid Azimuth	197 06 40.55861

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	MALEPORT
Ref Mon # 3	93620004

Comments

Cross Reference Job: RX0026

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620011A	3/22/1994	AHTD	SALINE	N/A	R60093

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	596,617.8848	
Easting (M)	343,152.0360	
Elevation (M)*	77.458	
Northing (SFT)	1,957,403.8437	
Easting (SFT)	1,125,824.6381	
Elevation (SFT)*	254.127	

Convergence Angle	0	20	46.3471003
Scale Factor	0.999943184		
Elevation Adjust. Factor	0.9999878445		
Combined Adjust. Factor	0.9999310292		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	26	16.1896524	
Longitude	92	37	6.8498112	
Ellipsoid Height (M):	50.278			
Geoid Height (M):	-27.180			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 229 & 291 IN TRASKWOOD,GO EASTERLY ON HWY-291 FOR 4.02 KM. (2.50 MI.) TO THE JUNCTION WITH "HOLY CIRCLE ROAD" ON THE RIGHT. GO RIGHT AND SOUTHWESTERLY ON "HOLY CIRCLE ROAD" FOR 0.51 KM.(2.5 MI.) TO THE STATION ON THE LEFT. 5.70 METERS SOUTHEAST OF THE CENTER OF THE GRAVELED "HOLY CIRCLE ROAD" AND 1.15 METERS SOUTHEAST OF A WITNESS POST SET IN A

FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "620011A" SET ON TOP OF AN IRON ROD 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	620011
Geodetic Azimuth	16 45 54.19718
Grid Azimuth	17 06 40.558607

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	MALEPORT
Ref Mon # 3	93620004

Comments

Cross Reference Job: RX0026

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620012	3/22/1994	AHTD	SALINE	190	001730

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	600,144.4509	
Easting (M)	348,034.6400	
Elevation (M)*	116.708	
Northing (SFT)	1,968,973.9193	
Easting (SFT)	1,141,843.6481	
Elevation (SFT)*	382.899	

Convergence Angle	0	18	59.7293282	
Scale Factor	0.999947270			
Elevation Adjust. Factor	0.9999816850			
Combined Adjust. Factor	0.9999289560			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	28	11.5572180	
Longitude	92	33	56.3557140	
Ellipsoid Height (M):	89.540			
Geoid Height (M):	-27.168			

Location Description

FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.0 KM BY AIR SOUTHEAST OF BENTON), GO WEST ON HWY. 190 FOR 4.35 KM (2.70 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.60 METERS NORTHWEST OF THE CENTERLINE OF HWY. 190, 7.00 METERS NORTHEAST OF A GRAVEL DRIVEWAY AND 0.44 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "620012" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	620012A
Geodetic Azimuth	351 12 45
Grid Azimuth	351 34 43.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	MALEPORT
Ref Mon # 3	93620004

Comments

Cross Reference Job: RX0026

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620012A	3/22/1994	AHTD	SALINE	N/A	001730

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	600,263.2219	
Easting (M)	347,925.1190	
Elevation (M)*	113.608	
Northing (SFT)	1,969,363.5872	
Easting (SFT)	1,141,484.3279	
Elevation (SFT)*	372.729	

Convergence Angle	0	19	2.1457695
Scale Factor			0.999947411
Elevation Adjust. Factor			0.9999821715
Combined Adjust. Factor			0.9999295835

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	28	15.3921324	
Longitude	92	34	0.6731724	
Ellipsoid Height (M):	86.436			
Geoid Height (M):	-27.172			

Location Description

FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO WEST ON HWY. 190 FOR 4.35 KM (2.70 MILES) TO A GRAVEL DRIVEWAY ON THE RIGHT LEADING TO A GRAY BRICK HOUSE, GO RIGHT (NORTHWEST) ON THIS DRIVEWAY FOR 0.16 KM (0.10 MILES) PASSING BY A TOWER AND FENCED IN AREA TO A POWER LINE RIGHT-OF-WAY AND A POWER POLE WITH AN AHTD WITNESS POST DRIVEN IN FRONT OF IT AND THE STATION. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "620012A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.76 METERS SOUTHEAST OF THE POWER POLE AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	620012
Geodetic Azimuth	137 19 27.7
Grid Azimuth	137 00 10.58

Area Reference Monuments (used for Processing)

Ref Mon # 1	620012
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Cross Reference Job: RX0026

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620013	3/22/1994	AHTD	SALINE	35	001730

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	603,058.2719	
Easting (M)	350,450.3920	
Elevation (M)*	114.090	
Northing (SFT)	1,978,533.6804	
Easting (SFT)	1,149,769.3278	
Elevation (SFT)*	374.310	

Convergence Angle	0	18	7.0837055
Scale Factor	0.999950869		
Elevation Adjust. Factor	0.9999820959		
Combined Adjust. Factor	0.9999329658		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	29	46.5448272
Longitude	92	32	22.2937188
Ellipsoid Height (M):	86.904		
Geoid Height (M):	-27.186		

Location Description

FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO SOUTH ON HWY. 35 FOR 0.24 KM (0.15 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 12.30 METERS WEST OF THE CENTERLINE OF HWY. 35, 9.50 METERS SOUTH OF THE CENTER OF JENSEN STREET, 25.95 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF HUCKABY`S COUNTRY STORE AND 2.52 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "6200013" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	183	31.00	101.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	620013A
Geodetic Azimuth	179 55 55.95107
Grid Azimuth	180 14 03.03486

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	MALEPORT
Ref Mon # 3	93620004

Comments

Cross Reference Job: RX0026

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620013A	3/22/1994	AHTD	SALINE	35	001730

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	602,549.7019	
Easting (M)	350,448.3130	
Elevation (M)*	107.906	
Northing (SFT)	1,976,865.1470	
Easting (SFT)	1,149,762.5069	
Elevation (SFT)*	354.022	

Convergence Angle	0	18	7.0705120
Scale Factor	0.999950229		
Elevation Adjust. Factor	0.9999830663		
Combined Adjust. Factor	0.9999332962		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	29	30.0395112
Longitude	92	32	22.2701460
Ellipsoid Height (M):	80.729		
Geoid Height (M):	-27.177		

Location Description

FROM THE JCT. OF HWY. 35 AND HWY. 190 IN THE VILLAGE OF SHAW (LOCATED ABOUT 8.00 KM BY AIR SOUTHEAST OF BENTON), GO SOUTH ON HWY. 35 FOR 0.75 KM (0.47 MILES) TO THE STATION ON THE LEFT. THE STATION IS 21.00 METERS NORTH OF THE CENTER OF AN OLD DRIVEWAY, 12.80 METERS EAST OF THE CENTERLINE OF HWY. 35 AND 0.96 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED"620013A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	170	11.80	38.7
MK # 2	TELEPHONE JUNCTION BOX	185	11.90	39.0
MK # 3	NONE			

AZ Mark Station	620013
Geodetic Azimuth	359 55 55.96443
Grid Azimuth	0 14 03.03486

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	MALEPORT
Ref Mon # 3	93620004

Comments

Cross Reference Job: RX0026

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620014	12/6/2001	AHTD	SALINE	167	061035

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	603,010.1029
Easting (M)	368,241.4150
Elevation (M)*	
Northing (SFT)	1,978,375.6459
Easting (SFT)	1,208,138.7090
Elevation (SFT)*	
Convergence Angle	0 11 36.7613488
Scale Factor	0.999950906
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 29 47.4782856
Longitude	92 20 44.9043108
Ellipsoid Height (M):	74.363
Geoid Height (M):	-26.118

Location Description

TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 0.161 KM (0.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.20 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167 AND O.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	270009

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620015	12/6/2001	AHTD	SALINE	167	061035,001847

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	606,342.2469
Easting (M)	369,042.9020
Elevation (M)*	90.162
Northing (SFT)	1,989,307.8550
Easting (SFT)	1,210,768.2543
Elevation (SFT)*	295.805

Convergence Angle	0	11	19.4182074
Scale Factor			0.999955268
Elevation Adjust. Factor			0.9999858509
Combined Adjust. Factor			0.9999411195

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	31	35.7056472
Longitude	92	20	13.9173000
Ellipsoid Height (M):	63.987		
Geoid Height (M):	-26.184		

Location Description

TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 3.589 KM (2.23 MI) TO THE JUNCTION OF STATE HIGHWAY 367 AND THE STATION ON THE LEFT. THE STATION IS 23.50 METERS NORTH WEST OF THE CENTER OF U.S. HIGHWAY 167, 14.70 METERS SOUTH EAST OF THE CENTER OF STATE HIGHWAY 367, AND 0.50 METERS SOUTH EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620015 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 499.638 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORRIGATED METAL PIPE	58	31.40	103.0
MK # 2	POWER POLE	253	33.00	108.3
MK # 3				

AZ Mark Station	620015A
Geodetic Azimuth	220 06 26
Grid Azimuth	220 17 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	270009

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620016	12/6/2001	AHTD	SALINE	I 530	061035

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	610,406.8060
Easting (M)	375,746.7660
Elevation (M)*	79.477
Northing (SFT)	2,002,642.9960
Easting (SFT)	1,232,762.5148
Elevation (SFT)*	260.751

Convergence Angle	0	8	52.5189499
Scale Factor			0.999960986
Elevation Adjust. Factor			0.9999875276
Combined Adjust. Factor			0.9999485141

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	33	48.2538024	
Longitude	92	15	51.4522260	
Ellipsoid Height (M):	53.117			
Geoid Height (M):	-26.262			

Location Description

TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 11.426 KM (7.10 MI) TO THE JUNCTION OF U.S. HIGHWAY 167 AND I 530, TURN RIGHT (SOUTH) AND GO 0.322 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS NORTH EAST OF THE CENTER OF I 530 SOUTH BOUND LANES AND 0.50 METERS SOUTH WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620016 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 839.690 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	620016A
Geodetic Azimuth	146 53 49
Grid Azimuth	147 02 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	270009

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620016A	12/6/2001	AHTD	SALINE	I 530	061035

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,702.2579	
Easting (M)	376,203.5200	
Elevation (M)*	74.387	
Northing (SFT)	2,000,331.4911	
Easting (SFT)	1,234,261.0485	
Elevation (SFT)*	244.051	

Convergence Angle	0	8	42.4510377	
Scale Factor	0.999959972			
Elevation Adjust. Factor	0.9999883264			
Combined Adjust. Factor	0.9999482989			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	33	25.4267784	
Longitude	92	15	33.4638756	
Ellipsoid Height (M):	48.046			
Geoid Height (M):	-26.248			

Location Description

TO REACH THE STATION FROM THE GRANT-SALINE COUNTY LINE, LOCATED ABOUT 22.53 KM (14.0 MI) NORTH OF SHERIDAN ON U.S. HIGHWAY 167, GO NORTH ON U.S. HIGHWAY 167 FOR 11.426 KM (7.10 MI) TO THE JUNCTION OF U.S. HIGHWAY 167 AND I 530, TURN RIGHT (SOUTH) ON I 530 AND GO 1.159 KM (0.72 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS NORTH EAST OF THE CENTER OF THE SOUTH BOUND LANES OF I 530 AND 0.50 METERS SOUTH WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "620016A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 839.690 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	END OF GUARD RAIL	152	18.25	59.9
MK # 2				
MK # 3				

AZ Mark Station	620016
Geodetic Azimuth	326 53 59
Grid Azimuth	327 02 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	270009

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620017			SALINE	I 30	60209

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	608,157.0477	
Easting (M)	340,947.7100	
Elevation (M)*		
Northing (SFT)	1,995,261.9140	
Easting (SFT)	1,118,592.6119	
Elevation (SFT)*		

Convergence Angle	0	21	36.2638414
Scale Factor			0.999957570
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	30.2353116
Longitude	92	38	36.0361104
Ellipsoid Height (M):	91.409		
Geoid Height (M):	-26.327		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620017A		AHTD	Saline	I 30	061256

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	607,879.5009	
Easting (M)	340,389.3290	
Elevation (M)*	120.824	
Northing (SFT)	1,994,351.3292	
Easting (SFT)	1,116,760.6569	
Elevation (SFT)*	396.402	

Convergence Angle	0	21	48.4819538
Scale Factor			0.999957180
Elevation Adjust. Factor			0.9999810392
Combined Adjust. Factor			0.9999382200

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	32	21.1248096
Longitude	92	38	57.8567508
Ellipsoid Height:			94.476
Grid Northing (Meters)			607,879.8427
Grid Easting (Meters)			340,389.5728

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	32	21.1136676	
Longitude	92	38	57.8662260	
Ellipsoid Height (M):			94.488	
Geoid Height (M):			-26.330	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAY 67 SOUTH, GO WEST ON I-30 TO THE STATION ON THE LEFT LOCATED 9.0 METERS SOUTH OF THE THE CENTERLINE OF THE SOUTH SERVICR ROAD, 17.0 METERS WEST OF A GRAVEL DRIVE INTO BIBLE MISSIONARY BAPTIST CHURCH, AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 64 MM CAP STAMPED 620017A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	240	11.20	36.7
MK # 2	WEST END OF SIGN	155	7.35	24.1
MK # 3	GAS METER	243	8.00	26.2

AZ Mark Station	620028
Geodetic Azimuth	64 56 36
Grid Azimuth	65 18 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	Saliport, Saliport Az.
Ref Mon # 2	ARHP, ARCM
Ref Mon # 3	CSAL

Comments

Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620017A-1			SALINE	I 30	60209

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620019A	7/27/2002	AHTD	SALINE	5	061228,60209,061082,061335

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	615,964.1176	0.0010
Easting (M)	351,788.2570	0.0020
Elevation (M)*	114.345	
Northing (SFT)	2,020,875.6092	
Easting (SFT)	1,154,158.6398	
Elevation (SFT)*	375.145	

Convergence Angle	0	17	39.1863672
Scale Factor	0.999969284		
Elevation Adjust. Factor	0.9999820559		
Combined Adjust. Factor	0.9999513405		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	36	45.6177096
Longitude	92	31	32.4388344
Ellipsoid Height:			
Grid Northing (Meters)	615,964.5140		
Grid Easting (Meters)	351,788.5310		

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	36	45.6048000	
Longitude	92	31	32.4495120	
Ellipsoid Height (M):	87.889			0.0090
Geoid Height (M):	-26.440			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 5 AND STATE HIGHWAY 183 IN THE CITY OF BRYANT ,GO WEST ON HIGHWAY 5 1.70 MILES TO THE STATION ON THE LEFT LOCATED AT THE SOUTHEAST END OF THE HURRICANE CREEK BRIDGE, 5.9 METERS SOUTH OF THE CENTERLINE OF HIGHWAY 5, 5.25 METERS EAST OF BRIDGE ABUTMENT, AND 0.20 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64MM CAP STAMPED 620019A-2002 SET ON TOP OF A 1.22 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK TOP OF STEEL GUARDRAIL POST	272	4.75	15.6
MK # 2	PUNCH MARK TOP OF STEEL GUARDRAIL POST	345	1.10	3.6
MK # 3	PUNCH MARK TOP OF STEEL GUARDRAIL POST	65	4.85	15.9

AZ Mark Station	620019
Geodetic Azimuth	112 49 46
Grid Azimuth	113 07 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, ARHP
Ref Mon # 2	SALIPORT
Ref Mon # 3	ARCM, ARHR

Comments

3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock.
**********Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620020			SALINE	I 30	60209,061335,061474

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,654.1650	
Easting (M)	356,402.8126	
Elevation (M)*	117.809	
Northing (SFT)	2,026,420.3730	
Easting (SFT)	1,169,298.2277	
Elevation (SFT)*	386.510	

Convergence Angle	0	15	57.9810113
Scale Factor	0.999972037		
Elevation Adjust. Factor	0.9999815123		
Combined Adjust. Factor	0.9999535499		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	37	41.1831552
Longitude	92	28	31.6257852
Ellipsoid Height (M):	91.481		
Geoid Height (M):	-26.331		

Location Description

FROM JCT OF I-30 & SR-183 (X-123) IN BRYANT GET ON E-BOUND SERVICE RD & GO 1.5 MI TO STA ON RT ON TOP OF BANK IN SE COR OF OVERPASS. 29' SE OF OVERPASS C/L. STA IS A 2 1/2" ALUM CAP STAMPED "620020 2002"

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SE END OF PARAPET WALL	15	18.50	60.7
MK # 2	END OF GUARD RAIL	162	59.00	193.6
MK # 3	DROP INLET	97	11.00	36.1

AZ Mark Station	620020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation updated by crew S5102 in 01/2016. Three wire ran through NGS Benchmarks P338 - Q338. Previous elevation of 386.5560

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620020A			SALINE	I 30	60209,061335,061474

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,392.2853	
Easting (M)	355,565.3299	
Elevation (M)*	123.764	
Northing (SFT)	2,025,561.1894	
Easting (SFT)	1,166,550.5865	
Elevation (SFT)*	406.050	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	37	32.5571016	
Longitude	92	29	4.4562048	
Ellipsoid Height (M):	97.416			
Geoid Height (M):	-26.332			

Convergence Angle	0	16	16.3558914
Scale Factor	0.999971605		
Elevation Adjust. Factor	0.9999805777		
Combined Adjust. Factor	0.9999521833		

Location Description

FROM JCT OF I-30 & SR-111 (X126) IN ALEXANDER GET ON W-BOUND SERVICE RD & GO 2.5 MI TO STA ON RT IN FRONT OF A CHURCH. 75' N OF W-BOUND SERVICE RD C/L. STA IS A 2 1/2" ALUM CAP STAMPED "620020A 2002"

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	355	81.00	265.7
MK # 2	CHURCH SIGN	265	28.00	91.9
MK # 3	WATER METER	110	7.00	23.0

AZ Mark Station	620020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation updated by crew S5102 in 01/2016. Three wire ran through NGS Benchmarks P338 - Q338. Previous elevation of 406.0300

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620021	1/15/2003	AHTD	SALINE	5	061082,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	615,553.1013	
Easting (M)	342,284.9436	
Elevation (M)*	94.272	
Northing (SFT)	2,019,527.1332	
Easting (SFT)	1,122,979.8525	
Elevation (SFT)*	309.290	

Convergence Angle	0	21	7.9087772
Scale Factor			0.999968550
Elevation Adjust. Factor			0.9999852059
Combined Adjust. Factor			0.9999537564

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	36	30.5265960
Longitude	92	37	45.3740520
Ellipsoid Height:			67.757
Grid Northing (Meters)			615,553.1012
Grid Easting (Meters)			342,284.9445

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	36	30.5265996
Longitude	92	37	45.3740844
Ellipsoid Height (M):	67.767		
Geoid Height (M):	-26.478		

Location Description

TO REACH THE STATION FROM U.S STATE HIGHWAY 5 AND HIGHWAY 298, NORTH WEST OF BENTON, GO SOUTH ON HIGHWAY 5 0.05 MILES TO THE STATION ON THE RIGHT. NORTH 8.20 METERS OF THE CENTER OF THE HIGHWAY, WEST 22.30 METERS OF A GRAVEL DRIVE, AND SOUTH 0.30 OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "620021 2003" ON TOP OF 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	84	18.30	60.0
MK # 2	UNDER GROUND CABLE MARKER	267	16.90	55.4
MK # 3				

AZ Mark Station	620021A
Geodetic Azimuth	251 21 49
Grid Azimuth	251 42 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	Russport, 480016
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	AHTD HOPE 1

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620021A	1/15/2003	AHTD	SALINE	5	061082,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	615,393.4117	
Easting (M)	341,801.6859	
Elevation (M)*	102.646	
Northing (SFT)	2,019,003.2182	
Easting (SFT)	1,121,394.3645	
Elevation (SFT)*	336.764	

Convergence Angle	0	21	18.5031732
Scale Factor			0.999968294
Elevation Adjust. Factor			0.9999838918
Combined Adjust. Factor			0.9999521863

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	36	25.2474840
Longitude	92	38	4.3030680
Ellipsoid Height:			76.132
Grid Northing (Meters)			615,393.4113
Grid Easting (Meters)			341,801.6868

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	36	25.2474948	
Longitude	92	38	4.3031040	
Ellipsoid Height (M):			76.141	
Geoid Height (M):			-26.482	

Location Description

TO REACH THE STATION FROM U.S. STATE HIGHWAY 5 AND HIGHWAY 298, NORTH WEST OF BENTON, GO SOUTH ON HIGHWAY 5 0.30 MILES TO THE STATION ON THE LEFT. 8.80 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 1.40 METERS NORTH OF AN 8 STRAN BARB WIRE FENCE AND 1.30 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "620021A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	312	20.40	66.9
MK # 2				
MK # 3				

AZ Mark Station	620021
Geodetic Azimuth	71 21 38
Grid Azimuth	71 42 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	Russport, 480016
Ref Mon # 2	AHTD MON 1
Ref Mon # 3	AHTD HOPE 1

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620022	11/5/2004	AHTD	SALINE	35	061155

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,889.1239	
Easting (M)	346,224.6370	
Elevation (M)*	104.022	
Northing (SFT)	2,000,944.5673	
Easting (SFT)	1,135,905.3299	
Elevation (SFT)*	341.280	

Convergence Angle	0	19	40.6496717
Scale Factor	0.999960062		
Elevation Adjust. Factor	0.9999836758		
Combined Adjust. Factor	0.9999437384		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	33	27.4745628	
Longitude	92	35	9.4681392	
Ellipsoid Height (M):	77.765			
Geoid Height (M):	-26.284			

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY WIRE	182	6.95	22.8
MK # 2	LIGHT POLE	291	2.30	7.5
MK # 3	ANCHOR OF GUY WIRE	219	8.10	26.6

AZ Mark Station	620022A
Geodetic Azimuth	92 48 19
Grid Azimuth	93 08 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	LROC C.O.R.S.
Ref Mon # 3	K 124

Comments

**********NOTE**********MONUMENT REPORTED DAMAGED BY CRAFTON TULL ON 10/31/2018 BY MARK A. MEADOR, RPLS 3-wire elevations ran from NGS Benton North Meridian to U79 in Job 061155 by Consultant Benham on 03/20/2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620022A	11/5/2004	AHTD	SALINE	35	061155

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,863.0919	
Easting (M)	346,700.1690	
Elevation (M)*	101.996	
Northing (SFT)	2,000,859.1607	
Easting (SFT)	1,137,465.4711	
Elevation (SFT)*	334.631	

Convergence Angle	0	19	30.2062471
Scale Factor	0.999960029		
Elevation Adjust. Factor	0.9999839938		
Combined Adjust. Factor	0.9999440235		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	26.7176916
Longitude	92	34	50.8088604
Ellipsoid Height (M):	75.745		
Geoid Height (M):	-26.275		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	265	3.20	10.5
MK # 2	POWER POLE	340	16.40	53.8
MK # 3				

AZ Mark Station	620022
Geodetic Azimuth	272 48 30
Grid Azimuth	273 08 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	LROC C.O.R.S.
Ref Mon # 3	K 124

Comments

3-wire elevations ran from NGS Benton North Meridian to U79 in Job 061155 by Consultant Benham on 03/20/2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620023	5/8/2007	AHTD	SALINE	183	061206

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	609,945.9009
Easting (M)	353,237.8300
Elevation (M)*	
Northing (SFT)	2,001,130.8432
Easting (SFT)	1,158,914.4473
Elevation (SFT)*	
Convergence Angle	0 17 6.6824483
Scale Factor	0.999960198
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	33	30.5349768
Longitude	92	30	34.3747224
Ellipsoid Height (M):	85.508		
Geoid Height (M):	-26.227		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 3.6 MILES TO THE STATION MARK ON THE RIGHT, IN FRONT OF THE BAUXITE POST OFFICE, WEST 99.2 FEET OF THE CENTERLINE OF A COUNTY ROAD, EAST OF THE CENTERLINE OF A CONCRETE DRIVE, SOUTH 29.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620023 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHEAST CORNER BAUXITE POST OFFI CE	154	23.47	77.0
MK # 2	FIRE HYDRANDT	255	38.62	126.7
MK # 3	FLAG POLE	139	14.87	48.8

AZ Mark Station	620023A
Geodetic Azimuth	269 10 05
Grid Azimuth	269 27 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620023A	5/8/2007	AHTD	SALINE	183	061206

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	609,940.8099
Easting (M)	352,704.5010
Elevation (M)*	
Northing (SFT)	2,001,114.1405
Easting (SFT)	1,157,164.6837
Elevation (SFT)*	
Convergence Angle	0 17 18.3911430
Scale Factor	0.999960186
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	33	30.2831172
Longitude	92	30	55.2946608
Ellipsoid Height (M):	77.616		
Geoid Height (M):	-26.228		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 3.3 MILES TO THE STATION MARK ON THE LEFT IN THE CENTER OF A GRAVEL DRIVE, NORTH 29.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTHWEST 62.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620023A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CABLE MARKER	293	16.70	54.8
MK # 2				
MK # 3				

AZ Mark Station	620023
Geodetic Azimuth	89 09 53
Grid Azimuth	89 27 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620024	5/8/2007	AHTD	SALINE	183	061206

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	610,603.7079
Easting (M)	354,574.4750
Elevation (M)*	
Northing (SFT)	2,003,288.9983
Easting (SFT)	1,163,299.7567
Elevation (SFT)*	
Convergence Angle	0 16 37.4061640
Scale Factor	0.999961158
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	33	52.0956468
Longitude	92	29	42.0667512
Ellipsoid Height (M):	79.969		
Geoid Height (M):	-26.236		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 4.8 MILES TO THE SALINE COUNTY CAREER CENTER (3201 SOUTH REYNOLDS ROAD) ON THE RIGHT, TURN RIGHT AND FOLLOW DRIVE (BEARING TO THE RIGHT) 0.1 MILES TO THE STATION MARK ON THE RIGHT, NORTHEAST 200.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620024 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	348	36.58	120.0
MK # 2				
MK # 3				

AZ Mark Station	620024
Geodetic Azimuth	350 24 22
Grid Azimuth	350 41 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620024A	5/8/2007	AHTD	SALINE	183	061206

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	610,951.8639
Easting (M)	354,517.3580
Elevation (M)*	
Northing (SFT)	2,004,431.2401
Easting (SFT)	1,163,112.3654
Elevation (SFT)*	
Convergence Angle	0 16 38.6972730
Scale Factor	0.999961665
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	34	3.3853836
Longitude	92	29	44.3735772
Ellipsoid Height (M):	89.534		
Geoid Height (M):	-26.241		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 4.9 MILES TO THE STATION MARK ON THE RIGHT, EAST 32.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 9.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620024A 2007" ON TOP OF A 4.0 FOOT IRON REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	235	24.32	79.8
MK # 2	POWER POLE	20	16.37	53.7
MK # 3	28 INCH PINE TREE	68	30.48	100.0

AZ Mark Station	620024A
Geodetic Azimuth	170 24 21
Grid Azimuth	170 41 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620025	7/23/2008	AHTD	Saline	167	020318,001847

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	606,028.4389	
Easting (M)	368,749.3350	
Elevation (M)*		
Northing (SFT)	1,988,278.3033	
Easting (SFT)	1,209,805.1099	
Elevation (SFT)*		

Convergence Angle	0	11	25.8382019
Scale Factor	0.999954844		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	31	25.4899092
Longitude	92	20	25.3879116
Ellipsoid Height (M):	56.419		
Geoid Height (M):	-26.179		

Location Description

To reach the station from the junction of highways 167 and 367 just south of East End go south on hwy-167 for 0.20 miles to the station on the right. 45.0 feet west of the west edge of the asphalt, 37.0 feet south southwest of the center of a paved drive and 41.0 mfeet north of a witness post. The station mark is a 2 1/2 inch cap stamped "620025 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	45	6.34	20.8
MK # 2	Southwest end of a culvert	74	8.02	26.3
MK # 3				

AZ Mark Station	620015
Geodetic Azimuth	42 54 08
Grid Azimuth	43 05 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

This station is a replacement for 620015A which was destroyed.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620026	7/28/2008	AHTD	Saline	NA	020318,061035

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	608,811.0029	
Easting (M)	372,348.2780	
Elevation (M)*	86.965	
Northing (SFT)	1,997,407.4320	
Easting (SFT)	1,221,612.6421	
Elevation (SFT)*	285.318	

Convergence Angle	0	10	7.0347246
Scale Factor	0.999958689		
Elevation Adjust. Factor	0.9999863525		
Combined Adjust. Factor	0.9999450421		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	32	56.1599700
Longitude	92	18	4.5896472
Ellipsoid Height (M):	60.736		
Geoid Height (M):	-26.229		

Location Description

To reach the station from the junction of highways 167 and 367 just south of East End go north on hwy-167 for 2.60 miles to Woodson lateral road. Turn left (west) on Woodson lateral road and go 0.05 miles to the station on the right in front of Cornerstone Fellowship Church. 48.70 feet north of the center of Woodson road, 38.0 feet west of the center of a paved drive and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "620026 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	259	11.89	39.0
MK # 2	Water valve	263	17.68	58.0
MK # 3				

AZ Mark Station	620026A
Geodetic Azimuth	62 17 29
Grid Azimuth	62 27 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620026A	7/28/2008	AHTD	Saline	167	020318,061035

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	609,037.5769
Easting (M)	372,782.7850
Elevation (M)*	83.670
Northing (SFT)	1,998,150.7835
Easting (SFT)	1,223,038.1871
Elevation (SFT)*	274.507

Convergence Angle	0	9	57.5105114
Scale Factor			0.999959011
Elevation Adjust. Factor			0.9999868696
Combined Adjust. Factor			0.9999458812

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	33	3.5542440	
Longitude	92	17	47.5727244	
Ellipsoid Height (M):	57.436			
Geoid Height (M):	-26.234			

Location Description

To reach the station from the junction of highways 167 and 367 just south of East End go north on hwy-167 for 2.80 miles to the station on the right 34.80 feet southeast of the center ofhwy-167 and 1.50 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "620026A 2008" set on top of a 4 foot long by 5/8 inch rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	620026
Geodetic Azimuth	242 17 39
Grid Azimuth	242 27 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM ARLR DQUA
Ref Mon # 2	620016 270015
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620027	10/27/2008	AHTD	SALINE	5	061228,061335, 061508

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	616,809.0903	0.0020
Easting (M)	353,560.9080	0.0020
Elevation (M)*	128.002	
Northing (SFT)	2,023,647.8238	
Easting (SFT)	1,159,974.4123	
Elevation (SFT)*	419.954	

Convergence Angle	0	17	0.3346411
Scale Factor			0.999970647
Elevation Adjust. Factor			0.9999799127
Combined Adjust. Factor			0.9999505603

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	37	13.3163436
Longitude	92	30	23.0332068
Ellipsoid Height:			101.694
Grid Northing (Meters)			616,809.0949
Grid Easting (Meters)			353,560.9050

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	37	13.3161960	
Longitude	92	30	23.0330880	
Ellipsoid Height (M):			101.540	0.0010
Geoid Height (M):			-26.441	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 5, NORTH OF BRYANT, GO SOUTH ON HIGHWAY 5 FOR 0.45 MILES TO THE STATION MARK ON THE LEFT, 22.5 FEET SOUTHWEST OF THE CENTERLINE OF A PAVED DRIVEWAY, 4 .60 FEET OF THE CENTERLINE OF THE HGIHWAY AND NORTH 1.50 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620027 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	254	17.22	56.5
MK # 2	GATE POST	117	2.89	9.5
MK # 3	CORNER OF SIDE WALK AT BACK OF CURB	25	2.44	8.0

AZ Mark Station	620027A
Geodetic Azimuth	48 50 11
Grid Azimuth	49 07 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock.
**********Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620027A	10/27/2008	AHTD	SALINE	5	061228,061335, 061508

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	617,078.4329	0.0020
Easting (M)	353,872.0426	0.0020
Elevation (M)*	137.956	

Northing (SFT)	2,024,531.4919	
Easting (SFT)	1,160,995.1931	
Elevation (SFT)*	452.611	

Convergence Angle	0	16	53.5277502
Scale Factor	0.999971084		
Elevation Adjust. Factor	0.9999783506		
Combined Adjust. Factor	0.9999494353		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	37	22.1065248
Longitude	92	30	10.8711108
Ellipsoid Height:	111.637		
Grid Northing (Meters)	617,078.4249		
Grid Easting (Meters)	353,872.0450		

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	37	22.1067840	
Longitude	92	30	10.8712080	
Ellipsoid Height (M):	111.491			0.0010
Geoid Height (M):	-26.444			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 5, NORTH OF BRYANT, GO SOUTH ON HIGHWAY 5 FOR 0.20 MILES TO THE STATION MARK ON THE RIGHT, 53.0 FEET SOUTHWEST OF THE CENTERLINE OF A PAVED DRIVEWAY AND EAST 39.7 FEET OF A WITNESS POST AND 21.6 FOOT NORTHWEST OF THE CENTERLINE OF THE HIGHWAY . THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "620027A 2008" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	242	9.30	30.5
MK # 2	GUY WIRE ANCHOR	261	10.76	35.3
MK # 3	CORNER OF RETAINING WALL	359	12.80	42.0

AZ Mark Station	620027
Geodetic Azimuth	228 50 17
Grid Azimuth	229 07 11

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, ARCM
Ref Mon # 2	SALIPORT
Ref Mon # 3	ARHP, ARHR

Comments

3-Wire Levels ran By Garver and verified by ESS in May 2009. Mark was established from elevations on Job 061202, which job 061202 was established by First Order level Loop around Little Rock.
**********Position updated by crew S5113 during job 061508 in 11/2016 using static GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620028		AHTD	Saline	I 30	061256

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	607,001.4972	
Easting (M)	337,748.7424	
Elevation (M)*	116.332	
Northing (SFT)	1,991,470.7454	
Easting (SFT)	1,108,097.3324	
Elevation (SFT)*	381.667	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	31	52.0641552	
Longitude	92	40	41.1961260	
Ellipsoid Height (M):	108.959			
Geoid Height (M):	-26.435			

Convergence Angle	0	22	46.3147365	
Scale Factor	0.999955951			
Elevation Adjust. Factor	0.9999817440			
Combined Adjust. Factor	0.9999376958			

Location Description

To reach the station from the junction of Interstate 30, US hwy-67 and hwy-229 southwest of Benton go west on I-30 for 0.70 miles to the station on the right near the north end of the old weigh station. 118.0 feet north of the center of the center of the west bound lane of I-30, 70.0 mfeet south of the center of the service road, 5.0 feet north of the edge of the paved weigh station and 2.0 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "620028 2009" set on top of a 5/8 inch by 4.0 foot long iron rod and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Underground cable marker	306	52.43	172.0
MK # 2	Corner of concrete island	103	21.64	71.0
MK # 3	113 mile marker post	213	46.02	151.0

AZ Mark Station	620017A
Geodetic Azimuth	244 56 50
Grid Azimuth	245 18 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	Saliport, Saliport Az.
Ref Mon # 2	ARCM ARHP
Ref Mon # 3	CSAL

Comments

Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620029		AHTD	Saline	I 30	061256,061330

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	607,001.4972	
Easting (M)	337,748.7424	
Elevation (M)*	135.391	
Northing (SFT)	1,991,470.7454	
Easting (SFT)	1,108,097.3324	
Elevation (SFT)*	444.196	

Convergence Angle	0	22	46.3147365
Scale Factor			0.999955951
Elevation Adjust. Factor			0.9999787532
Combined Adjust. Factor			0.9999347051

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	31	52.0640508
Longitude	92	40	41.1961044
Ellipsoid Height:			109.056
Grid Northing (Meters)			607,001.4939
Grid Easting (Meters)			337,748.7430

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	31	52.0641552	
Longitude	92	40	41.1961260	
Ellipsoid Height (M):			108.959	
Geoid Height (M):			-26.435	

Location Description

To reach the station from the junction of I-30, US highway 70 southwest of Benton go west on I-30 for 0.20 miles to the station on the left in the median at the end of the I-30 on ramp. 38.0 feet north of the edge of the pavement of a lane crossover, 36.0 feet west of the center of the east bound lane, 29.70 feet east of the center of the west bound lane and 1.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "620029 2010" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of a drop inlet in the median	11	62.48	205.0
MK # 2				
MK # 3				

AZ Mark Station	620004A
Geodetic Azimuth	207 10 28
Grid Azimuth	207 33 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARHP
Ref Mon # 3	ARCM

Comments

Previous Elevation (135.423 m) from Digital Levels ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.
**********Updated
Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.
**********FOUND

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620030	9/19/2011	AHTD	Saline	arrows ro	061341

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	614,676.1864	
Easting (M)	331,559.5803	
Elevation (M)*	116.787	0.0152
Northing (SFT)	2,016,650.1215	
Easting (SFT)	1,087,791.7230	
Elevation (SFT)*	383.159	

Convergence Angle	0	25	3.3799980
Scale Factor			0.999967066
Elevation Adjust. Factor			0.9999816727
Combined Adjust. Factor			0.9999487393

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	35	59.7305040
Longitude	92	44	46.0907880
Ellipsoid Height (M):	90.133		
Geoid Height (M):	-26.748		

Location Description

Starting at the intersection of highway 5 , 9, and narrows road go south on narrows road for 1.8 miles to the station on the right. The station is a standard alum. cap stamped(620030 2011) and is set on a 4 foot 5/8" rebar. It is 50' south west of the CL of narrows road, 115' north west of a driveway, and 28' southwest of a witness post. Lat.34.3600 Lon.092.4446

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	center of a metal gate	35	27.74	91.0
MK # 2	power pole with a transformer	173	22.55	74.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620030A	9/19/2011	AHTD	Saline	arrows ro	061341

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	614,443.1442	
Easting (M)	331,824.2639	
Elevation (M)*	112.059	0.0152
Northing (SFT)	2,015,885.5489	
Easting (SFT)	1,088,660.1058	
Elevation (SFT)*	367.647	

Convergence Angle	0	24	57.5289289
Scale Factor	0.999966709		
Elevation Adjust. Factor	0.9999824146		
Combined Adjust. Factor	0.9999491242		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID96		
Latitude	34	35	52.2302640
Longitude	92	44	35.6366760
Ellipsoid Height (M):	85.417		
Geoid Height (M):	-26.736		

Location Description

Starting athe intersection of highway 5, 9, and narrows road go south on narrows road for 2 miles to the station on the left. The station is a standard alum. cap stamped (620030A 2011) and is set on a 4 foot 5/8" rebar. It is 15' north east of the CL of narrows road, 3' north east of a guard rail, and 3' north east of a witness post. Lat.34.3552 Lon.092.4436

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North East corner of bridge	164	10.50	34.4
MK # 2	North end of guardrail	340	12.80	42.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620031	8/8/2011	AHTD	SALINE	88	061330

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,126.3872	
Easting (M)	327,464.2643	
Elevation (M)*	132.109	
Northing (SFT)	1,998,442.1553	
Easting (SFT)	1,074,355.6738	
Elevation (SFT)*	433.427	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	34	32	58.6290084	
Longitude	92	47	25.1324988	
Ellipsoid Height (M):	105.449			
Geoid Height (M):	-26.674			

Convergence Angle	0	26	32.3941624
Scale Factor	0.999958797		
Elevation Adjust. Factor	0.9999792683		
Combined Adjust. Factor	0.9999380661		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 270 (EXIT 6), EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 11.9 MILES TO STATE HIGHWAY 88 AND TURN RIGHT (WEST) AND GO 0.1 MILES TO THE MARK ON THE LEFT, 43 FEET SOUTHEAST OF THE CENTELINE OF THE ROAD, AND NORTH 1.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "620031 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	69	19.08	62.6
MK # 2				
MK # 3				

AZ Mark Station	620031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620031A	8/8/2011	AHTD	SALINE	70	061330

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,200.8656	
Easting (M)	327,996.6226	
Elevation (M)*	135.490	
Northing (SFT)	1,998,686.5066	
Easting (SFT)	1,076,102.2526	
Elevation (SFT)*	444.519	

Convergence Angle	0	26	20.7201640
Scale Factor	0.999958908		
Elevation Adjust. Factor	0.9999787377		
Combined Adjust. Factor	0.9999376466		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	33	1.1789136
Longitude	92	47	4.2745524
Ellipsoid Height (M):	108.828		
Geoid Height (M):	-26.666		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 88, EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 0.2 MILES TO THE MARK ON THE LEFT, 19.2 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT OF THE WEST BOUND LANE, 27.8 FEET WEST OF THE CENTERLINE OF A GRAVEL DRIVE AND SOUTH 1.6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "620031A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	620031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620032	8/8/2011	AHTD	SALINE	70	061330

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	607,803.5851	
Easting (M)	332,137.8891	
Elevation (M)*	103.760	
Northing (SFT)	1,994,102.2621	
Easting (SFT)	1,089,689.0578	
Elevation (SFT)*	340.418	

Convergence Angle	0	24	49.5869496
Scale Factor	0.999956998		
Elevation Adjust. Factor	0.9999837170		
Combined Adjust. Factor	0.9999407157		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	32	16.8336528
Longitude	92	44	21.4467324
Ellipsoid Height (M):	77.209		
Geoid Height (M):	-26.552		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 88, EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 3.1 MILES TO THE MARK ON THE LEFT, 71.5 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE AND SOUTH 2.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "620032 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	280	9.66	31.7
MK # 2				
MK # 3				

AZ Mark Station	620032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620032A	8/8/2011	AHTD	SALINE	70	061330

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	607,662.7508	
Easting (M)	332,832.7695	
Elevation (M)*	103.154	
Northing (SFT)	1,993,640.2082	
Easting (SFT)	1,091,968.8446	
Elevation (SFT)*	338.432	

Convergence Angle	0	24	34.3126131
Scale Factor	0.999956811		
Elevation Adjust. Factor	0.9999838120		
Combined Adjust. Factor	0.9999406237		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	34	32	12.4252044
Longitude	92	43	54.1560576
Ellipsoid Height (M):	76.619		
Geoid Height (M):	-26.535		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 70 AND 88, EAST OF HOT SPRINGS, GO EAST ON HIGHWAY 70 3.6 MILES TO THE MARK ON THE LEFT, 61.2 FEET NORTH OF THE NORTH EDGE OF THE PAVEMENT FOR THE WEST BOUND LANE, 10.8 FEET WEST OF THE CENTERLINE OF A FIELD ROAD AND SOUTH 11.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 ½ INCH CAP STAMPED "620032A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	620032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, AB8283
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP

Comments

Elevation Established from Digital Levels by B&F Engineering from NGS 2nd Order BM's R 79, N 79, & Z 78 in March of 2012 for Job 061330.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620033	9/19/2011	AHTD	Saline	5	061341,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	616,671.1594	
Easting (M)	333,903.2209	
Elevation (M)*	158.960	
Northing (SFT)	2,023,195.2955	
Easting (SFT)	1,095,480.8172	
Elevation (SFT)*	521.523	

Convergence Angle	0	24	12.2092360	
Scale Factor			0.999970237	
Elevation Adjust. Factor			0.9999750546	
Combined Adjust. Factor			0.9999452923	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude	34	37	5.0166840	
Longitude	92	43	14.6639640	
Ellipsoid Height:				
Grid Northing (Meters)			616,671.1669	
Grid Easting (Meters)			333,903.2201	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	37	5.0164428	
Longitude	92	43	14.6639280	
Ellipsoid Height (M):			132.256	
Geoid Height (M):			-26.665	

Location Description

Starting at the intersection of highway 5 and 9 go northon 5 for 3.2 miles to the station on the left. The station is a standard alum. cap stamped(620033 2011) and is set on a 4 foot 5/8" rebar. It is 42' north of the center line of highway5 and is 2' south of a witness post.
Lat.34.3705 Lon.092.4315

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	east end of concrete ditch	97	17.98	59.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620033A	9/19/2011	AHTD	Saline	5	061341,061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	616,484.2200	
Easting (M)	333,254.2630	
Elevation (M)*	122.146	
Northing (SFT)	2,022,581.9785	
Easting (SFT)	1,093,351.6945	
Elevation (SFT)*	400.741	

Convergence Angle	0	24	26.4377819
Scale Factor			0.999969931
Elevation Adjust. Factor			0.9999808316
Combined Adjust. Factor			0.9999507632

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	34	36	58.8012120
Longitude	92	43	40.0862280
Ellipsoid Height:			
Grid Northing (Meters)			616,484.2302
Grid Easting (Meters)			333,254.2595

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	36	58.8008808
Longitude	92	43	40.0860876
Ellipsoid Height (M):	95.444		
Geoid Height (M):	-26.673		

Location Description

Starting at the intersection of highway 5 and 9 go north on highway5 for 2.8 miles to the station on the right. The station is a standard alum. cap stamped (620033A 2011) and is set on a 4 foot 5/8" rebar. It is 31.5' south of CL of highway5, 127' west of a driveway, 6' north of a chain link fence, and 6' north of a witness post. Lat.34.3659 Lon.092.4340

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	213	2.35	7.7
MK # 2	Telephone box	98	4.88	16.0
MK # 3	South West corner of a metal fence	338	22.86	75.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620034	5/15/2013	AHTD	SALINE	I 30	BB0602,CA0601

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	607,001.4849	0.0040
Easting (M)	337,748.7570	0.0030
Elevation (M)*	135.278	

Northing (SFT)	1,991,470.7050	
Easting (SFT)	1,108,097.3803	
Elevation (SFT)*	443.825	

Convergence Angle	0	22	46.3144161	
Scale Factor			0.999955951	
Elevation Adjust. Factor			0.9999787709	
Combined Adjust. Factor			0.9999347229	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid 96			
Latitude	34	31	52.0637592	
Longitude	92	40	41.1955536	
Ellipsoid Height (M):	108.925			0.0027
Geoid Height (M):	-26.353			0.0000

Location Description

To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 0.20 miles to the station on the left in the median at the end of the I-30 on ramp. 38.0 feet north of the edge of the pavement of a lane crossover, 36.0 feet west of the center of the east bound lane, 29.70 feet east of the center of the west bound lane and 1.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "620034 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of a drop inlet in the median	11	62.48	205.0
MK # 2				
MK # 3				

AZ Mark Station	620004A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	620004A

Comments

Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620035	5/15/2013	AHTD	SALINE	I 30	BB0602

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	604,576.8304	0.0030
Easting (M)	335,914.9036	0.0030
Elevation (M)*	126.653	
Northing (SFT)	1,983,515.8177	
Easting (SFT)	1,102,080.8129	
Elevation (SFT)*	415.526	

Convergence Angle	0	23	26.2005103	
Scale Factor			0.999952706	
Elevation Adjust. Factor			0.9999801245	
Combined Adjust. Factor			0.9999328314	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid 96			
Latitude	34	30	32.9761764	
Longitude	92	41	52.4600844	
Ellipsoid Height (M):	100.313			0.0064
Geoid Height (M):	-26.339			0.0000

Location Description

To reach the station from the junction of I-30, US highway 70 southwest of Benton go west on I-30 for 2.1 miles to the station on the right, 21.0 feet north of the edge of the concrete for the west bound lane and south 16.4 feet of a witness post. The mark is a standard 2 1/2" cap stamped "620035 2013" on top of a 4 foot rebar driven below the surface of the ground.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	620035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	620004A

Comments

Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620035A	5/15/2013	AHTD	SALINE	I 30	BB0602

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	604,190.2325	0.0040
Easting (M)	335,628.4549	0.0040
Elevation (M)*	138.586	
Northing (SFT)	1,982,247.4545	
Easting (SFT)	1,101,141.0225	
Elevation (SFT)*	454.677	

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid 96			
Latitude	34	30	20.3663124	
Longitude	92	42	3.5861868	
Ellipsoid Height (M):	112.248			0.0068
Geoid Height (M):	-26.338			0.0000

Convergence Angle	0	23	32.4276862
Scale Factor	0.999952202		
Elevation Adjust. Factor	0.9999782518		
Combined Adjust. Factor	0.9999304549		

Location Description

To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 2.4 miles to the station on the right, 10.4 feet north of the edge of the concrete for the west bound lane and west 82.3 feet of the centerline of a overpass. The mark is a standard 2 1/2" cap stamped "620035A 2013" on top of a 2 foot rebar driven below the surface of the ground.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	end of concrete culvert	332	64.62	212.0
MK # 2				
MK # 3				

AZ Mark Station	620035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	620004A

Comments

Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620036	5/15/2013	AHTD	SALINE	I 30	BB0602

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	601,977.6892	0.0030
Easting (M)	333,854.0809	0.0030
Elevation (M)*	123.476	
Northing (SFT)	1,974,988.4687	
Easting (SFT)	1,095,319.5971	
Elevation (SFT)*	405.103	

Convergence Angle	0	24	11.0178719
Scale Factor	0.999949389		
Elevation Adjust. Factor	0.9999806230		
Combined Adjust. Factor	0.9999300130		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 96		
Latitude	34	29	8.1622428
Longitude	92	43	12.5353164
Ellipsoid Height (M):	97.145	0.0088	
Geoid Height (M):	-26.331	0.0000	

Location Description

To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 4.1 miles to the station on the left in the median and 11 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "620036 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	620036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	620004A

Comments

Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620036A	5/15/2013	AHTD	SALINE	I 30	BB0602

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	601,679.2675	0.0030
Easting (M)	333,445.3693	0.0030
Elevation (M)*	137.530	

Northing (SFT)	1,974,009.3968	
Easting (SFT)	1,093,978.6824	
Elevation (SFT)*	451.213	

Convergence Angle	0	24	19.9369885
Scale Factor	0.999949018		
Elevation Adjust. Factor	0.9999784175		
Combined Adjust. Factor	0.9999274366		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 96		
Latitude	34	28	58.3838472
Longitude	92	43	28.4711124
Ellipsoid Height (M):	111.196	0.0091	
Geoid Height (M):	-26.334	0.0000	

Location Description

To reach the station from the junction of I-30 and US highway 70, southwest of Benton, go west on I-30 for 4.5 miles to the station on the right at the northeast corner of the bridge over I 30 and 5.4 feet east of a witness post. The station mark is a standard 2 1/2 inch cap stamped "620036A 2013" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northeast corner of bridge	195	3.05	10.0
MK # 2				
MK # 3				

AZ Mark Station	620036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	620004A

Comments

Elevation by S5112 in May 2013 for Job #BB0602 using Digital Level. Job Elevations based on AHTD GPS Marker 620004A from Job #061330. **Note: Elevation from Digital levels used as constraint in final Static GPS Network Adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620037	2/10/2014	AHTD	SALINE	5	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	615,993.9341	
Easting (M)	337,659.3619	
Elevation (M)*	111.728	
Northing (SFT)	2,020,973.4321	
Easting (SFT)	1,107,804.0898	
Elevation (SFT)*	366.560	

Convergence Angle	0	22	49.5869403	
Scale Factor	0.999969199			
Elevation Adjust. Factor	0.9999824666			
Combined Adjust. Factor	0.9999516661			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	36	43.8728688	
Longitude	92	40	47.0425764	
Ellipsoid Height (M):	85.121			
Geoid Height (M):	-26.574			

Location Description

TO REACH FROM THE JCT. OF HWY 5 AND HWY 298. GO WEST ON HWY 5 FOR 3.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.0 FT. SOUTH OF A WITNESS POST, 5.9 FT N OF GUARDRAIL, AND 23.3 FT N OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620037 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE BRIDGE CORNER	264	17.70	58.1
MK # 2	POWER POLE	212	25.90	85.0
MK # 3				

AZ Mark Station	620037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620037A	2/10/2014	AHTD	SALINE	5	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	616,027.9542	
Easting (M)	337,323.4489	
Elevation (M)*	113.770	
Northing (SFT)	2,021,085.0464	
Easting (SFT)	1,106,702.0153	
Elevation (SFT)*	373.259	

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	36	44.9043156	
Longitude	92	41	0.2366160	
Ellipsoid Height (M):	87.155			
Geoid Height (M):	-26.581			

Convergence Angle	0	22	56.9715214
Scale Factor	0.999969250		
Elevation Adjust. Factor	0.9999821462		
Combined Adjust. Factor	0.9999513967		

Location Description

TO REACH FROM THE JCT. OF HWY 5 AND HWY 298. GO WEST ON HWY 5 FOR 3.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.0 FT. NORTH OF A WITNESS POST, AND 27.89 FT SOUTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620037A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	304	14.00	45.9
MK # 2	WOODEN GATE POST	271	8.80	28.9
MK # 3	18" CMP	181	1.30	4.3

AZ Mark Station	620037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620038	2/10/2014	AHTD	SALINE	9	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,119.6628	
Easting (M)	329,675.9207	
Elevation (M)*	149.221	
Northing (SFT)	2,024,666.7604	
Easting (SFT)	1,081,611.7498	
Elevation (SFT)*	489.570	

Convergence Angle	0	25	45.1574984	
Scale Factor	0.999970908			
Elevation Adjust. Factor	0.9999765829			
Combined Adjust. Factor	0.9999474915			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	37	18.5744712	
Longitude	92	46	0.7346964	
Ellipsoid Height (M):	122.441			
Geoid Height (M):	-26.764			

Location Description

TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO NORTH ON HWY 9 FOR 0.5 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.0 FT WEST OF A WITNESS POST, AND 33.46 FT EAST OF THE CENTERLINE OF HWY 9. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 6200338 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	185	23.60	77.4
MK # 2	6" PINE TREE	4	9.70	31.8
MK # 3	WOODEN FENCE POST	92	1.30	4.3

AZ Mark Station	620038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620038A	2/10/2014	AHTD	SALINE	9	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	616,686.7755	
Easting (M)	329,468.1255	
Elevation (M)*	132.814	
Northing (SFT)	2,023,246.5293	
Easting (SFT)	1,080,930.0084	
Elevation (SFT)*	435.739	

Convergence Angle	0	25	49.6515354	
Scale Factor	0.999970210			
Elevation Adjust. Factor	0.9999791577			
Combined Adjust. Factor	0.9999493683			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	37	4.4758776	
Longitude	92	46	8.7641976	
Ellipsoid Height (M):	106.039			
Geoid Height (M):	-26.755			

Location Description

TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO NORTH ON HWY 9 FOR 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 5.0 FT EAST OF A WITNESS POST, AND 33.79 FT WEST OF THE CENTERLINE OF HWY 9. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 6200338A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	210	8.60	28.2
MK # 2				
MK # 3				

AZ Mark Station	620038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620039	2/10/2014	AHTD	SALINE	5	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	616,359.9272	
Easting (M)	325,574.1026	
Elevation (M)*	160.073	
Northing (SFT)	2,022,174.1945	
Easting (SFT)	1,068,154.3683	
Elevation (SFT)*	525.173	

Convergence Angle	0	27	15.1464588	
Scale Factor	0.999969641			
Elevation Adjust. Factor	0.9999748799			
Combined Adjust. Factor	0.9999445217			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	36	52.8934356	
Longitude	92	48	41.5180764	
Ellipsoid Height (M):	133.221			
Geoid Height (M):	-26.820			

Location Description

TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 2.7 MILES TO THE STATION ON THE RIGHT. THE STATION IS 3.0 FT NORTH OF A WITNESS POST, AND 33.46 FT NORTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620039 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	38	3.90	12.8
MK # 2	12" PLASTIC PIPE	141	5.90	19.4
MK # 3	COMBINATION POLE	286	18.00	59.1

AZ Mark Station	620039A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620039A	2/10/2014	AHTD	SALINE	5	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	616,172.5525	
Easting (M)	325,923.5778	
Elevation (M)*	163.919	
Northing (SFT)	2,021,559.4493	
Easting (SFT)	1,069,300.9382	
Elevation (SFT)*	537.792	

Convergence Angle	0	27	7.4362841	
Scale Factor	0.999969347			
Elevation Adjust. Factor	0.9999742763			
Combined Adjust. Factor	0.9999436241			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	36	46.9024776	
Longitude	92	48	27.7422984	
Ellipsoid Height (M):	137.090			
Geoid Height (M):	-26.807			

Location Description

TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 2.4 MILES TO THE STATION ON THE RIGHT. THE STATION IS 17.0 FT SOUTH OF A WITNESS POST, AND 28.22 FT NORTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620039A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	620039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620040	2/10/2014	AHTD	SALINE	5	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,140.1191	
Easting (M)	321,587.9250	
Elevation (M)*	160.544	
Northing (SFT)	2,024,733.8741	
Easting (SFT)	1,055,076.3839	
Elevation (SFT)*	526.719	

Convergence Angle	0	28	42.8624902	
Scale Factor	0.999970838			
Elevation Adjust. Factor	0.9999748060			
Combined Adjust. Factor	0.9999456448			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	37	17.1590124	
Longitude	92	51	18.2404116	
Ellipsoid Height (M):	133.603			
Geoid Height (M):	-26.929			

Location Description

TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 5.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT NORTH OF A WITNESS POST, AND 38.71 FT SOUTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620040 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	72	3.20	10.5
MK # 2	COMBINATION POLE	99	29.40	96.5
MK # 3	CENTER 4 FT BOULDER	149	3.00	9.8

AZ Mark Station	620040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620040A	2/10/2014	AHTD	SALINE	5	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	617,165.7001	
Easting (M)	321,139.8117	
Elevation (M)*	153.604	
Northing (SFT)	2,024,817.8011	
Easting (SFT)	1,053,606.1989	
Elevation (SFT)*	503.949	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	37	17.8673412	
Longitude	92	51	35.8397028	
Ellipsoid Height (M):	126.661			
Geoid Height (M):	-26.939			

Convergence Angle	0	28	52.7126496
Scale Factor	0.999970873		
Elevation Adjust. Factor	0.9999758951		
Combined Adjust. Factor	0.9999467688		

Location Description

TO REACH FROM THE JCT. OF HWY 5 AND HWY 9 IN CROWS. GO WEST ON HWY 5 FOR 5.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT NORTH OF A WITNESS POST, 24.61 FT EAST OF THE CENTER OF REGGIE RD, AND 48.56 FT SOUTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620040A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" CMP	342	5.20	17.1
MK # 2	30" HACKBERRY	146	27.00	88.6
MK # 3	WOODEN FENCE CORNER	289	14.00	45.9

AZ Mark Station	620040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620041	2/10/2014	AHTD	SALINE	5	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	612,406.8832	
Easting (M)	345,750.4607	
Elevation (M)*	140.943	
Northing (SFT)	2,009,204.9160	
Easting (SFT)	1,134,349.6365	
Elevation (SFT)*	462.410	

Convergence Angle	0	19	51.3793653	
Scale Factor			0.999963749	
Elevation Adjust. Factor			0.9999778820	
Combined Adjust. Factor			0.9999416318	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	34	49.0944360	
Longitude	92	35	28.6388952	
Ellipsoid Height (M):			114.575	
Geoid Height (M):			-26.340	

Location Description

TO REACH FROM THE INTERSECTION OF HWY 5 AND HWY 35. GO NORTH ON HWY 5 FOR 0.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 30.0 FT EAST OF A WITNESS POST, 26.0 FT NORTH OF THE CENTER OF FIRST ASSEMBLY OF GOD DRIVEWAY, AND 68.90 FT EAST OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620041 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH FLAG POLE	341	35.70	117.1
MK # 2	COMBINATION POLE 3 GY	320	33.40	109.6
MK # 3	LIGHT POLE	102	29.00	95.1

AZ Mark Station	620041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620041A	2/10/2014	AHTD	SALINE	5	061428

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	611,970.6726	
Easting (M)	345,834.6621	
Elevation (M)*	130.581	
Northing (SFT)	2,007,773.7817	
Easting (SFT)	1,134,625.8872	
Elevation (SFT)*	428.414	

Convergence Angle	0	19	49.4750074	
Scale Factor			0.999963099	
Elevation Adjust. Factor			0.9999795081	
Combined Adjust. Factor			0.9999426078	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	34	34.9539924	
Longitude	92	35	25.2363768	
Ellipsoid Height (M):	104.225			
Geoid Height (M):	-26.330			

Location Description

TO REACH FROM THE INTERSECTION OF HWY 5 AND HWY 35. GO EAST ON HWY 5 FOR 100.0 FT TO THE STATION ON THE LEFT. THE STATION IS 1.0 FT SOUTH OF A WITNESS POST, AND 51.18 FT NORTH OF THE CENTERLINE OF HWY 5. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED " 620041A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE 2 GY	119	18.70	61.4
MK # 2	FLARED END SECTION	310	3.20	10.5
MK # 3	TRAFFIC SIGNAL POLE	299	28.00	91.9

AZ Mark Station	620041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST. BY 3WR DIGITAL LEVELS FROM NGS BMS X 105, E 78, D98, BENTON NORTH MERIDIAN, AND AHTD GPS 260025A DURING JOB 061428 IN MARCH 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620042	6/24/2014	AHTD	SALINE	NVILLE	BR6208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	622,925.6011	0.0050
Easting (M)	315,341.9277	0.0040
Elevation (M)*	158.335	0.0080
Northing (SFT)	2,043,715.0763	
Easting (SFT)	1,034,584.3078	
Elevation (SFT)*	519.472	

Convergence Angle	0	31	1.2387880
Scale Factor	0.999980474		
Elevation Adjust. Factor	0.9999751526		
Combined Adjust. Factor	0.9999556271		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	40	23.1441456
Longitude	92	55	25.4775036
Ellipsoid Height (M):	130.945		0.0080
Geoid Height (M):	-27.392		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 N AND STATE HIGHWAY 7 N, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 1.8 MILES TO DANVILLE ROAD AND TURN RIGHT (NORTH) AND GO 6.0 MILES TO THE MARK ON THE RIGHT, EAST 7.3 FEET OF A PRIVATE ASPHAULT DRIVE AND WEST 5.0 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "620042 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	81	5.60	18.4
MK # 2	TELEPHONE BOX	289	54.00	177.2
MK # 3	SOUTH END 12" RCP	0	28.00	91.9

AZ Mark Station	620042A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	P777

Comments

Elevation based on 3rd Order Digital levels from NGS 2nd Order BM's H 104 and E 162 by S5112 in June 2014 for Job #BR6208.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620042A	6/24/2014	AHTD	SALINE	NVILLE	BR6208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	623,535.2015	0.0060
Easting (M)	315,313.2300	0.0060
Elevation (M)*	153.134	0.0080
Northing (SFT)	2,045,715.0736	
Easting (SFT)	1,034,490.1554	
Elevation (SFT)*	502.408	

Convergence Angle	0	31	1.9906651
Scale Factor			0.999981547
Elevation Adjust. Factor			0.9999759688
Combined Adjust. Factor			0.9999575163

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	34	40	42.9177828	
Longitude	92	55	26.8208832	
Ellipsoid Height (M):			125.722	0.0080
Geoid Height (M):			-27.414	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 5 N AND STATE HIGHWAY 7 N, NORTHEAST OF HOT SPRINGS, GO NORTH ON HIGHWAY 5 1.8 MILES TO DANVILLE ROAD AND TURN RIGHT (NORTH) AND GO 6.35 MILES TO THE MARK ON THE RIGHT, EAST 14 FEET OF THE CENTERLINE OF DANVILLE ROAD AND WEST 3.4 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "620042A 2014" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	340	94.50	310.0
MK # 2	WOODEN BRACE POST	176	132.00	433.1
MK # 3				

AZ Mark Station	620042
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	P777

Comments

Elevation based on 3rd Order Digital levels from NGS 2nd Order BM's H 104 and E 162 by S5112 in June 2014 for Job #BR6208.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620043	6/22/2017	AHTD	Pulaski	111	061390

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	618,964.4075	0.0020
Easting (M)	359,221.9519	0.0020
Elevation (M)*	108.305	0.0026
Northing (SFT)	2,030,719.0603	
Easting (SFT)	1,178,547.3539	
Elevation (SFT)*	355.329	

Convergence Angle	0	14	56.1606615
Scale Factor	0.999974213		
Elevation Adjust. Factor	0.9999830038		
Combined Adjust. Factor	0.9999572172		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	34	38	24.1147428	
Longitude	92	26	41.1712944	
Ellipsoid Height (M):	81.523			0.0050
Geoid Height (M):	-26.451			

Location Description

To reach from the intersection of hwy 5 and N. Alexander (AR 111) in Saline County, go South 0.4 miles to station on the right. 8' West of curb, 17' South of S.W. corner of bridge, and 1.3' East of a woitness post. Station is an AHTD GPS monument stamped "620043 2017" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	curb		2.44	8.0
MK # 2	S.W. corner of bridge		5.18	17.0
MK # 3	witness post		0.40	1.3

AZ Mark Station	620043A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARRV
Ref Mon # 3	ARPB

Comments

Set by crew S5113v in 06/2017 during job 061390. Elevation based on digital levels ran from NGS benchmark N 338.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620043A	6/22/2017	AHTD	Pulaski	I-30	061390

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	618,510.0728	0.0020
Easting (M)	358,000.2914	0.0020
Elevation (M)*	112.888	0.0008
Northing (SFT)	2,029,228.4638	
Easting (SFT)	1,174,539.2894	
Elevation (SFT)*	370.368	

Convergence Angle	0	15	22.9635095
Scale Factor	0.999973452		
Elevation Adjust. Factor	0.9999822844		
Combined Adjust. Factor	0.9999557369		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	34	38	9.1957236
Longitude	92	27	29.0599740
Ellipsoid Height (M):	86.104		0.0050
Geoid Height (M):	-26.448		

Location Description

To reach from the intersection I-30 West service road and N. Alexander (AR 111) in Saline County, go West 0.85 miles to station on the right. 9' North of edge of pavement of service road, 5' S.E. of 15' combination power pole with fence' and 1.5' S.E. of witness post. Station is an AHTD GPS monument stamped "620043A 2017" set on top of a 5/8 in. by 4 FT. Rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	edge of pavement of service road		2.74	9.0
MK # 2	15' combination power pole		1.52	5.0
MK # 3	witness post		0.46	1.5

AZ Mark Station	620043
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARRV
Ref Mon # 3	ARPB

Comments

Set by crew S5113v in 06/2017 during job 061390. Elevation based on digital levels ran from NGS benchmark P 338.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620044	6/9/2021	AHTD	Pulaski	N/A	061752

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	622,791.6908	0.0020
Easting (M)	363,007.4938	0.0020
Elevation (M)*		0.0017
Northing (SFT)	2,043,275.7389	
Easting (SFT)	1,190,967.0859	
Elevation (SFT)*		

Convergence Angle	0	13	33.3000753
Scale Factor			0.999980782
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	40	28.8271524
Longitude	92	24	13.1241888
Ellipsoid Height (M):	61.381		0.0030
Geoid Height (M):	-26.503		0.0030

Location Description

tHE INTERSECTION OF STATE HWY. 338 AND I-430 IN LITTLE ROCK, GO EAST ON STATE HWY. 338 FOR 0.2 MILES TO SIBLEY HOLE RD. AND TURN LEFT AND GO FOR 0.2 MILES TO THE 2ND TURN IN TO ARDOT CENTRAL SHOPS AND TURN RIGHT AND GO FOR 0.05 MILES AND TURN LEFT AND GO DOWN THE HILL FOR 0.5 MILES TO A GATE ON THE LEFT, TURN LEFT AND GO THROUGH THE GATE TO THE STATION ON THE RIGHT.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	171	7.38	24.2
MK # 2	CL TRANSMISSION LINE	7	10.42	34.2
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620044-1	11/9/2016	AHTD	SALINE	I-30	061508

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	615,678.6148	0.0010
Easting (M)	352,456.8782	0.0010
Elevation (M)*		

Northing (SFT)	2,019,938.9221	
Easting (SFT)	1,156,352.2746	
Elevation (SFT)*		

Convergence Angle	0	17	24.4656066
Scale Factor			0.999968837
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	34	36	36.4501800
Longitude	92	31	6.1479120
Ellipsoid Height (M):	96.840		0.0090
Geoid Height (M):	-26.428		

Location Description

TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Springhill Rd. in Saline County, drive South 0.2 miles, then West on flyover 0.25 mjiles to station on the right. 10.15' South West of SW corner of bridge, 10.84' West of gaurd rail, 0.73' South of witness post. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620044 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North East corner of bridge		3.09	10.1
MK # 2	guard rail		2.56	8.4
MK # 3	witness post		0.22	0.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB

Comments

elevations based on digital levels, checking into PN:902 from job 061335

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620044A	6/9/2021	ARDOT	Pulaski	N/A	061752

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	623,158.5389	0.0020
Easting (M)	363,620.6646	0.0020
Elevation (M)*		
Northing (SFT)	2,044,479.3064	
Easting (SFT)	1,192,978.7971	
Elevation (SFT)*		

Convergence Angle	0	13	19.8505993	
Scale Factor	0.999981432			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	40	40.8098820	
Longitude	92	23	49.0939944	
Ellipsoid Height (M):	56.881			0.0030
Geoid Height (M):	-26.508			0.0030

Location Description

FROM THE INTERSECTION OF I-30 AND STATE HWY. 338 IN LITTLE ROCK, AR. GO WEST ON STATE HWY. 338 FOR 0.1 MILES TO MABELVALE PIKE ON THE RIGHT, GO NORTH ON MABELVALE PIKE FOR 0.275 MILES TO A FARM ROAD ON THE LEFT, GO WEST ON THE FARM ROAD FOR 0.85 MILES TO A Y IN THE ROAD, GO RIGHT AT THE Y FOR 0.1 MILES TO ANOTHER Y IN THE ROAD, GO LEFT AT THE Y FOR 0.15 MILES TO ANOTHER Y IN THE ROAD, GO LEFT AT THE Y FOR 0.15 MILES TO THE STATION IN THE MIDDLE OF THE DRIVE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	HIGH VOLTAGE POWERLINE POLE	181	10.06	33.0
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620048	11/9/2016	AHTD	SALINE	Hwy 5	061508

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	614,467.1723	0.0010
Easting (M)	349,190.4630	0.0010
Elevation (M)*	147.619	0.0029
Northing (SFT)	2,015,964.3811	
Easting (SFT)	1,145,635.7107	
Elevation (SFT)*	484.312	

Convergence Angle	0	18	36.0794874
Scale Factor	0.999966916		
Elevation Adjust. Factor	0.9999768344		
Combined Adjust. Factor	0.9999437511		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	34	35	56.5806480
Longitude	92	33	14.1005160
Ellipsoid Height (M):	121.161	0.0090	
Geoid Height (M):	-26.433		

Location Description

TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Military Rd. in Saline County, drive South West 0.07 miles to the station on the right. 8.4' West of back of curb, 33.5' North of North West corner of bridge, and 0.7' East of witness post. . THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620048 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	back of curb		2.56	8.4
MK # 2	NorthWest corner of bridge		10.21	33.5
MK # 3	Witness Post		0.21	0.7

AZ Mark Station	620048A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB

Comments

Elevations based on digital levels, checking into PN:902 from job 061335

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620048A	11/9/2016	AHTD	SALINE	Hwy 5	061508

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	614,768.1656	0.0010
Easting (M)	349,622.7763	0.0010
Elevation (M)*	146.695	0.0026
Northing (SFT)	2,016,951.8900	
Easting (SFT)	1,147,054.0586	
Elevation (SFT)*	481.281	

Convergence Angle	0	18	26.6189708
Scale Factor	0.999967387		
Elevation Adjust. Factor	0.9999769793		
Combined Adjust. Factor	0.9999443671		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	34	36	6.4242360
Longitude	92	32	57.1974000
Ellipsoid Height (M):	120.236		0.0090
Geoid Height (M):	-26.435		

Location Description

TO REACH THE STATION MARK FROM THE Intersection of Hwy 5 and Military Rd. in Saline County, drive North East 0.26 miles to the station on the right. 18.8' East of Power Pole, 15.1' mSouth of edge of pavement, 0.8' North of witness post. . THE STATION MARK IS A STANDARD 64mm CAP STAMPED "620048A 2016" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole		5.73	18.8
MK # 2	Edge of Pavement		4.60	15.1
MK # 3	Witness Post		0.24	0.8

AZ Mark Station	620048
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHP
Ref Mon # 3	ARPB

Comments

levations based on digital levels, checking into PN:902 from job 061335

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630001	2/1/1994	AHTD	SCOTT	71	R40024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	45,981.4959	
Easting (M)	208,134.2490	
Elevation (M)*	245.867	
Northing (SFT)	150,857.6245	
Easting (SFT)	682,853.7819	
Elevation (SFT)*	806.649	

Convergence Angle	-1	13	8.5719292
Scale Factor	1.000046349		
Elevation Adjust. Factor	0.9999614169		
Combined Adjust. Factor	1.0000077642		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	43	45.8144544
Longitude	94	5	41.8087392
Ellipsoid Height (M):	215.079		
Geoid Height (M):	-30.788		

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 2.14 KM (1.33 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS SOUTHEAST OF THE CENTERLINE OF HWY. 71 AND 0.67 METERS NORTH OF A WITNESS POST DRIVEN ADJACENT TO A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "630001" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	96	26.87	88.2
MK # 2	NBC IN POWER POLE	282	23.45	76.9
MK # 3	NONE			

AZ Mark Station	63001A
Geodetic Azimuth	96 44 48.038223
Grid Azimuth	97 57 56.503450

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	MENAPORT
Ref Mon # 3	Q-299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630001A	2/1/1994	AHTD	SCOTT	71	R40024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	45,919.3859	
Easting (M)	208,578.1130	
Elevation (M)*	250.168	
Northing (SFT)	150,653.8519	
Easting (SFT)	684,310.0257	
Elevation (SFT)*	820.760	

Convergence Angle	-1	12	58.3922685
Scale Factor	1.000046472		
Elevation Adjust. Factor	0.9999607420		
Combined Adjust. Factor	1.0000072122		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	43	44.1055272
Longitude	94	5	24.3148812
Ellipsoid Height (M):	219.393		
Geoid Height (M):	-30.775		

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 1.69 KM (1.05 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.350 METERS NORTH OF THE CENTERLINE OF HWY. 71, 35.889 METERS SOUTHWEST OF A HOUSE TRAILER AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "63001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 20" SYCAMORE	44	33.07	108.5
MK # 2	SOUTHWEST CORNER OF CHAIN LINK FEN CE	58	33.04	108.4
MK # 3	NONE			

AZ Mark Station	630001
Geodetic Azimuth	276 44 58.00446
Grid Azimuth	277 57 56.50345

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	MENAPORT
Ref Mon # 3	Q-299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630002	2/1/1994	AHTD	SCOTT	71	R40024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	50,821.3020
Easting (M)	211,512.7220
Elevation (M)*	202.911
Northing (SFT)	166,736.2216
Easting (SFT)	693,937.9888
Elevation (SFT)*	665.717
Convergence Angle	-1 11 53.6331416
Scale Factor	1.000035230
Elevation Adjust. Factor	0.9999681577
Combined Adjust. Factor	1.0000033865

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 46 25.1427720
Longitude	94 3 33.0256152
Ellipsoid Height (M):	172.083
Geoid Height (M):	-30.828

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO NORTH ON HWY. 71 FOR 5.64 KM (3.50 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 15.641 METERS EAST OF THE CENTERLINE OF HWY. 71, 4.499 METERS WEST OF A WOODEN FENCE, 2.570 METERS EAST OF THE CENTER OF CONCRETE DITCH PAVING, 75.149 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A BOX CULVERT AT LOG MILE 11.43 AND 1.150 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "630002" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	63002A
Geodetic Azimuth	242 50 11.38358
Grid Azimuth	244 02 05.15926

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	MENAPORT
Ref Mon # 3	Q-299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630002A	2/1/1994	AHTD	SCOTT	71	R40024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	50,513.1509	
Easting (M)	210,879.9460	
Elevation (M)*	205.445	
Northing (SFT)	165,725.2292	
Easting (SFT)	691,861.9562	
Elevation (SFT)*	674.031	

Convergence Angle	-1	12	7.9623662
Scale Factor	1.000035940		
Elevation Adjust. Factor	0.9999677600		
Combined Adjust. Factor	1.0000036989		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	46	14.7154044
Longitude	94	3	57.6505440
Ellipsoid Height (M):	174.610		
Geoid Height (M):	-30.835		

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 270 IN "Y" CITY SOUTH OF WALDRON, GO NORTH ON HWY. 71 FOR 4.94 KM (3.07 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.812 METERS SOUTH OF THE CENTERLINE OF HWY. 71, 41.850 METERS EAST SOUTHEAST OF THE CENTER OF CO. RD. NO. 147, 4.343 METERS NORTH OF A WOODEN FENCE AND 0.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMUNUM CAP STAMPED "63002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NGS BENCHMARK A-300 1985	302	41.18	135.1
MK # 2	CENTER OF TELEPHONE JUNCTION BOX	295	37.36	122.6
MK # 3	CENTER OF TELEPHONE JUNCTION BOX	104	33.14	108.7

AZ Mark Station	630002
Geodetic Azimuth	62 49 57.339604
Grid Azimuth	64 02 05.159259

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	MENAPORT
Ref Mon # 3	Q-299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630003	2/1/1994	AHTD	SCOTT	71	R40024, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	54,526.4503	0.0010
Easting (M)	213,355.8826	0.0010
Elevation (M)*	213.208	
Northing (SFT)	178,892.1957	
Easting (SFT)	699,985.0915	
Elevation (SFT)*	699.500	

Convergence Angle	-1	11	13.2199846
Scale Factor			1.000027149
Elevation Adjust. Factor			0.9999665418
Combined Adjust. Factor			0.9999936899

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	48	26.5933440
Longitude	94	2	23.5751640
Ellipsoid Height (M):	182.747		0.0030
Geoid Height (M):	-30.439		

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 28 IN THE COMMUNITY OF NEEDMORE JUST NORTH OF BOLES AND SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 0.16 KM (0.10 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 20.915 METERS NORTH NORTHWEST OF THE CENTERLINE OF HWY. 71, 31.609 METERS SOUTHWEST OF A GRAVEL DRIVEWAY AND 2.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "630003" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	48	26.6015196
Longitude	94	2	23.5651632
Ellipsoid Height:	182.340		
Grid Northing (Meters)	54,526.6969		
Grid Easting (Meters)	213,356.1420		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF TELEPHONE JUNCTION BOX	210	14.41	47.3
MK # 2	CENTER OF TELEPHONE JUNCTION BOX	350	21.46	70.4
MK # 3	NONE			

AZ Mark Station	63003A
Geodetic Azimuth	190 30 55.46284
Grid Azimuth	191 42 08.69738

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	MENAPORT
Ref Mon # 3	Q-299

Comments

ELEV. EST. BY STATIC OBS DURING JOB 040882 BY S5101 IN

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630003A	2/1/1994	AHTD	SCOTT	71	R40024, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	54,025.9758	0.0010
Easting (M)	213,252.2073	0.0010
Elevation (M)*	203.762	

Northing (SFT)	177,250.2223	
Easting (SFT)	699,644.9501	
Elevation (SFT)*	668.509	

Convergence Angle	-1	11	15.3554823
Scale Factor			1.000028215
Elevation Adjust. Factor			0.9999680241
Combined Adjust. Factor			0.9999962382

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	48	10.2950460
Longitude	94	2	27.2346360
Ellipsoid Height:			172.902
Grid Northing (Meters)			54,026.2260
Grid Easting (Meters)			213,252.4770

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	48	10.2867480	
Longitude	94	2	27.2450400	
Ellipsoid Height (M):			173.321	0.0030
Geoid Height (M):			-30.436	

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 28 IN THE COMMUNITY OF NEEDMORE JUST NORTH OF BOLES AND SOUTH OF WALDRON, GO SOUTH ON HWY. 71 FOR 0.67 KM (0.42 MILES) TO THE STATION ON THE LEFT. THE STATION IS 18.252 METERS EAST OF THE CENTERLINE OF HWY. 71, 22.516 METERS SOUTH OF A FIELD ENTRANCE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "63003A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	14	37.02	121.4
MK # 2	NBC IN COMBINATION POLE	183	59.94	196.7
MK # 3	NONE			

AZ Mark Station	630003
Geodetic Azimuth	10 30 53.368362
Grid Azimuth	11 42 08.697383

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	MENAPORT
Ref Mon # 3	Q-299

Comments

ELEV EST. BY DIGITAL LEVELS FROM GPS 630003 DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630004	8/9/1999	AHTD	SCOTT	28	R40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	64,995.4530	
Easting (M)	176,731.1220	
Elevation (M)*		
Northing (SFT)	213,239.2487	
Easting (SFT)	579,825.3561	
Elevation (SFT)*		

Convergence Angle	-1	25	17.3743520
Scale Factor	1.000007924		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	53	39.1740972
Longitude	94	26	34.2636540
Ellipsoid Height (M):	163.993		
Geoid Height (M):	-31.181		

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 0.52 KM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.70 METERS NORTHWEST OF THE CENTER OF A GRAVEL ROAD, 10.50 METERS EAST OF THE CENTER OF A GRAVEL ROAD, 7.80 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630004 1999" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 875.806 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF RCP	279	7.55	24.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630004A
Geodetic Azimuth	79 26 28.800035
Grid Azimuth	80 51 46.007745

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630004A	8/9/1999	AHTD	SCOTT	28	R40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	65,134.5280
Easting (M)	177,595.7990
Elevation (M)*	
Northing (SFT)	213,695.5306
Easting (SFT)	582,662.2172
Elevation (SFT)*	

Convergence Angle	-1	24	57.6426018
Scale Factor	1.000007623		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	53	44.3804352
Longitude	94	26	0.3544260
Ellipsoid Height (M):	171.074		
Geoid Height (M):	-31.166		

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 1.38 KM (0.86 MI) TO THE STATION ON THE RIGHT JUST BEFORE A RAILROAD CROSSING. THE STATION IS 25.48 METERS SOUTH OF THE SOUTH RAIL, 22.12 METERS SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 10.86 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 28 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630004A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 875.806 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	51	25.97	85.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630004
Geodetic Azimuth	259 26 48.19861
Grid Azimuth	260 51 46.00775

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630005	8/9/1999	AHTD	SCOTT	28	R40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	66,467.2290	
Easting (M)	184,467.7870	
Elevation (M)*		
Northing (SFT)	218,067.9005	
Easting (SFT)	605,208.0645	
Elevation (SFT)*		

Convergence Angle	-1	22	20.9251371
Scale Factor	1.000004840		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	54	33.0398568
Longitude	94	21	31.0337532
Ellipsoid Height (M):	149.965		
Geoid Height (M):	-31.030		

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 8.58 KM (5.33 MI) TO THE STATION ON THE LEFT. THE STATION IS 13.91 METERS NORTH OF THE CENTER OF STATE HIGHWAY 28, 7.63 METERS SOUTH OF THE SOUTH RAIL AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630005 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 453.060 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	76	42.11	138.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630005A
Geodetic Azimuth	255 46 54.46975
Grid Azimuth	257 09 15.47816

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630005A	8/9/1999	AHTD	SCOTT	28	R40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	66,366.5041
Easting (M)	184,026.0770
Elevation (M)*	
Northing (SFT)	217,737.4389
Easting (SFT)	603,758.8876
Elevation (SFT)*	

Convergence Angle	-1	22	30.9917311
Scale Factor	1.000005045		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	54	29.4285924
Longitude	94	21	48.3333048
Ellipsoid Height (M):	150.407		
Geoid Height (M):	-31.040		

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 8.13 KM (5.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.65 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.86 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMED "630005A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 453.060 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630005
Geodetic Azimuth	75 46 44.569731
Grid Azimuth	77 09 15.478162

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630006	8/9/1999	AHTD	SCOTT	28	R40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	67,072.8230
Easting (M)	188,399.1350
Elevation (M)*	
Northing (SFT)	220,054.7535
Easting (SFT)	618,106.1621
Elevation (SFT)*	
Convergence Angle	-1 20 51.1617233
Scale Factor	1.000003562
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	54	55.7138016
Longitude	94	18	56.7743472
Ellipsoid Height (M):	171.496		
Geoid Height (M):	-30.940		

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAMONA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 12.55 KM (7.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.43 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 1.31 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630006 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 446.166 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	62	24.19	79.4
MK # 2	GUY POLE	237	17.52	57.5
MK # 3	WEST GATE POLE	82	15.43	50.6

AZ Mark Station	630006A
Geodetic Azimuth	61 41 30.432395
Grid Azimuth	63 02 21.520447

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

ELEVATION = 663.941 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630006A	8/9/1999	AHTD	SCOTT	28	R40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	67,275.1051
Easting (M)	188,796.8110
Elevation (M)*	
Northing (SFT)	220,718.4073
Easting (SFT)	619,410.8708
Elevation (SFT)*	
Convergence Angle	-1 20 42.1568031
Scale Factor	1.000003178
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 55 2.5792680
Longitude	94 18 41.2992936
Ellipsoid Height (M):	161.986
Geoid Height (M):	-30.934

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 13.00 KM (8.08 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.75 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.83 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "630006A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 446.166 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF A PLASTIC CULVERT	45	22.75	74.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630006
Geodetic Azimuth	241 41 39.29002
Grid Azimuth	243 02 21.52045

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

ELEVATION = 632.703 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630007	8/9/1999	AHTD	SCOTT	28	R40103, 040905

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	68,922.4310	
Easting (M)	196,095.2090	
Elevation (M)*	199.246	
Northing (SFT)	226,123.0090	
Easting (SFT)	643,355.6982	
Elevation (SFT)*	653.693	

Convergence Angle	-1	17	55.7441653
Scale Factor	0.999999923		
Elevation Adjust. Factor	0.9999687328		
Combined Adjust. Factor	0.9999686558		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	56	1.4847864
Longitude	94	13	55.3173600
Ellipsoid Height (M):	168.498		
Geoid Height (M):	-30.776		

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 20.92 KM (13.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 0.61 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630007 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.710 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	83	13.90	45.6
MK # 2	TELEPHONE JUNCTION BOX	254	3.25	10.7
MK # 3	NONE			

AZ Mark Station	630007A
Geodetic Azimuth	79 36 07.725431
Grid Azimuth	80 54 03.369104

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Elevations based on NGS point Q 299

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630007A	8/9/1999	AHTD	SCOTT	28	R40103, 040905

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,010.9431	
Easting (M)	196,647.8610	
Elevation (M)*	199.669	
Northing (SFT)	226,413.4025	
Easting (SFT)	645,168.8573	
Elevation (SFT)*	655.081	

Convergence Angle	-1	17	43.1214933
Scale Factor	0.999999744		
Elevation Adjust. Factor	0.9999686664		
Combined Adjust. Factor	0.9999684104		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	56	4.7622300
Longitude	94	13	33.6251604
Ellipsoid Height (M):	168.921		
Geoid Height (M):	-30.764		

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 21.49 KM (13.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.05 METERS NORTH OF THE CENTER OF STATE HIGHWAY 28, 13.10 METERS SOUTH OF THE SOUTH RAIL, 6.08 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630007A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.710 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630007
Geodetic Azimuth	259 36 20.14717
Grid Azimuth	260 54 03.36910

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Elevations based on NGS point Q 299

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630008	8/9/1999	AHTD	SCOTT	28	R40103, 040905

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	68,928.2180	
Easting (M)	199,543.2840	
Elevation (M)*	193.157	
Northing (SFT)	226,141.9952	
Easting (SFT)	654,668.2576	
Elevation (SFT)*	633.716	

Convergence Angle	-1	16	36.7056584
Scale Factor	0.999999775		
Elevation Adjust. Factor	0.9999696883		
Combined Adjust. Factor	0.9999694633		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	56	4.1872884	
Longitude	94	11	39.4888236	
Ellipsoid Height (M):	162.448			
Geoid Height (M):	-30.714			

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 24.33 KM (15.12 MI) TO THE STATION ON THE RIGHT SET JUST WEST OF A BRIDGE. THE STATION IS 10.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28, 8.40 METERS EAST OF A FIELD ENTRANCE AND 0.82 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 411.131 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WESTERN MOST CONCRETE GUARD RAIL POST	54	9.75	32.0
MK # 2	PIPE CORNER POST	91	18.84	61.8
MK # 3	EAST GATE POST	260	6.40	21.0

AZ Mark Station	630008A
Geodetic Azimuth	78 36 47.146680
Grid Azimuth	79 53 23.778848

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Elevations based on NGS point Q 299

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630008A	8/9/1911	AHTD	SCOTT	28	R40103, 040905

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,000.3850	
Easting (M)	199,948.0140	
Elevation (M)*	201.991	
Northing (SFT)	226,378.7631	
Easting (SFT)	655,996.1093	
Elevation (SFT)*	662.699	

Convergence Angle	-1	16	27.4645914
Scale Factor	0.999999632		
Elevation Adjust. Factor	0.9999683020		
Combined Adjust. Factor	0.9999679340		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	56	6.8209080	
Longitude	94	11	23.6079492	
Ellipsoid Height (M):	171.305			
Geoid Height (M):	-30.706			

Location Description

TO REACH THE STATION FROM THE ARKANSAS-OKLAHOMA STATE LINE AND STATE HIGHWAY 28, LOCATED ABOUT 6.44 KM (4.00 MI) WEST OF BATES, GO EAST ON STATE HIGHWAY 28 FOR 24.75 KM (15.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.30 METERS WEST OF THE CENTER OF A PAVE ROAD, 12.08 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 28 AND 1.22 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630008A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 411.131 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TETEPHONE JUNCTION BOX	248	35.12	115.2
MK # 2	CHAIN LINK FENCE CORNER POST	246	17.79	58.4
MK # 3	EAST GATE POST OF A CHAIN LINK POST	77	15.07	49.4

AZ Mark Station	630008
Geodetic Azimuth	258 36 56.24080
Grid Azimuth	259 53 23.77885

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Elevations based on NGS point Q 299

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630009	8/9/1999	AHTD	SCOTT	71	R40103, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	68,940.3769	0.0010
Easting (M)	207,977.9572	0.0010
Elevation (M)*	202.608	

Northing (SFT)	226,181.8865	
Easting (SFT)	682,341.0146	
Elevation (SFT)*	664.723	

Convergence Angle	-1	13	23.3547907
Scale Factor			0.999999429
Elevation Adjust. Factor			0.9999682052
Combined Adjust. Factor			0.9999676342

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	56	10.5530820
Longitude	94	6	7.2140976
Ellipsoid Height:			171.972
Grid Northing (Meters)			68,940.3901
Grid Easting (Meters)			207,977.9360

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	56	10.5526680
Longitude	94	6	7.2132480
Ellipsoid Height (M):	171.901		0.0010
Geoid Height (M):	-30.683		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 28, LOCATED ON THE NORTH SIDE OF WALDRON, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.31 KM (0.19 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.39 METERS SOUTH OF A PASTURE ENTRANCE, 20.42 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 1.71 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630009 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 516.035 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH GATE POST	5	18.22	59.8
MK # 2	TELEPHONE JUNCTION BOX	177	38.41	126.0
MK # 3	NONE			

AZ Mark Station	630009A
Geodetic Azimuth	355 08 32.22123
Grid Azimuth	356 21 55.58444

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Elevations based on NGS point Q 299

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630009A	8/9/1999	AHTD	SCOTT	71	R40103, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	69,455.3653	0.0010
Easting (M)	207,945.2485	0.0010
Elevation (M)*	203.890	

Northing (SFT)	227,871.4777	
Easting (SFT)	682,233.7028	
Elevation (SFT)*	668.929	

Convergence Angle	-1	13	24.3567512
Scale Factor			0.999998525
Elevation Adjust. Factor			0.9999680040
Combined Adjust. Factor			0.9999665291

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	56	27.2377320
Longitude	94	6	8.9360568
Ellipsoid Height:			173.279
Grid Northing (Meters)			69,455.3680
Grid Easting (Meters)			207,945.2250

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	56	27.2376600
Longitude	94	6	8.9351280
Ellipsoid Height (M):			173.206 0.0010
Geoid Height (M):			-30.681

Location Description

THE STATION IS LOCATED ON THE NORTH SIDE OF WALDRON AT THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 28. THE STATION IS ABOUT 70.00 METERS NORTH OF THE CENTER OF STATE HIGHWAY 28, 18.45 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.88 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "630009A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE STATION IS 516.035 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL CORNER POST	350	15.00	49.2
MK # 2	COMBINATION POLE	325	20.29	66.6
MK # 3	NONE			

AZ Mark Station	630009
Geodetic Azimuth	175 08 31.23505
Grid Azimuth	176 21 55.58444

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Elevations based on NGS point Q 299

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630010	9/10/1999	AHTD	SCOTT	28	R40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,078.6670	
Easting (M)	203,799.4920	
Elevation (M)*	195.091	
Northing (SFT)	226,635.5933	
Easting (SFT)	668,632.1667	
Elevation (SFT)*	640.061	

Convergence Angle	-1	14	59.2123908
Scale Factor	0.999999344		
Elevation Adjust. Factor	0.9999693848		
Combined Adjust. Factor	0.9999687288		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	56	12.1132572
Longitude	94	8	51.9455796
Ellipsoid Height (M):	164.421		
Geoid Height (M):	-30.634		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 28, LOCATED ON THE NORTH SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 28 FOR 4.30 KM (2.67 MI) TO THE JUNCTION OF A GRAVEL DDRIVEWAY ON THE LEFT, GO LEFT, SOUTH ON THE DRIVEWAY FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630010 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 335.918 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630010A
Geodetic Azimuth	339 34 25.76285
Grid Azimuth	340 49 24.99652

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Elevations based on NGS point Q 299

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630010A	8/10/1999	AHTD	SCOTT	28	R40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,395.9360	
Easting (M)	203,689.1550	
Elevation (M)*	204.332	
Northing (SFT)	227,676.5000	
Easting (SFT)	668,270.1694	
Elevation (SFT)*	670.379	

Convergence Angle	-1	15	1.9005714
Scale Factor			0.999998790
Elevation Adjust. Factor			0.9999679347
Combined Adjust. Factor			0.9999667247

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	56	22.3281204	
Longitude	94	8	56.5652472	
Ellipsoid Height (M):	173.682			
Geoid Height (M):	-30.634			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHAY 28, LOCATED ON THE NORTH SIDE OF WALDRON, GO WEST ON STATE HIGHWAY 28 FOR 4.70 KM (2.92 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.72 METERS EAST OF THE CENTER OF STATE HIGHWAY 28, 5.86 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 335.918 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF A PLASTIC CULVERT	208	4.03	13.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630010
Geodetic Azimuth	159 34 23.11719
Grid Azimuth	160 49 24.99652

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	MENAPORT AZ MK

Comments

Elevations based on NGS point Q 299

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630011	8/7/2000	AHTD	SCOTT	248	R40118, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	63,174.3170	0.0010
Easting (M)	202,896.1850	0.0010
Elevation (M)*		
Northing (SFT)	207,264.4050	
Easting (SFT)	665,668.5670	
Elevation (SFT)*		

Convergence Angle	-1	15	16.9555941
Scale Factor			1.000010214
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:			NONE
Elevation Datum:			NONE
Geoid Datum:			GEOID18
Latitude	34	52	59.9214720
Longitude	94	9	22.4374680
Ellipsoid Height (M):			178.136 0.0020
Geoid Height (M):			-30.782

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 248, LOCATED ON THE WEST SIDE OF WALDRON, GO WEST ON STATE HIGWWAY 248 FOR 4.65 KM (2.89 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.35 METERS SOUTH SOUTHWEST OF THE CENTER OF STATE HIGHWAY 248, 6.60 METERS NORTH NORTHEAST OF THE CENTER OF A GRAVEL DRIVEWAY ANDS 0.50 METERS NORTH NORTEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630011 2000" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 319.611 METERS.

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	52	59.9212812
Longitude	94	9	22.4385048
Ellipsoid Height:			178.292
Grid Northing (Meters)			63,174.3117
Grid Easting (Meters)			202,896.1585

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	292	17.65	57.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630011A
Geodetic Azimuth	110 06 08.45950
Grid Azimuth	111 21 25.35662

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	630007

Comments

ELEV EST BY DIGITAL LEVELS FROM GPS 630011A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630011A	8/7/2000	AHTD	SCOTT	2481	R40118, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	63,057.9104	0.0010
Easting (M)	203,193.8508	0.0010
Elevation (M)*		

Northing (SFT)	206,882.4944	
Easting (SFT)	666,645.1588	
Elevation (SFT)*		

Convergence Angle	-1	15	10.0779514
Scale Factor			1.000010424
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	52	56.3565324
Longitude	94	9	10.6194744
Ellipsoid Height:			169.619
Grid Northing (Meters)			63,057.9177
Grid Easting (Meters)			203,193.8177

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:	GEOID18		
Latitude	34	52	56.3563200
Longitude	94	9	10.6181640
Ellipsoid Height (M):	169.463		0.0020
Geoid Height (M):	-30.774		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 248, LOCATED ON THE WEST SIDE OF WALDRON, GO WEST ON STATE HIGWWAY 248 FOR 4.33 KM (2.69 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.65 METERS NORTH OF THE CENTER OF STATE HIGHWAY 248 AND 0.82 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "630011A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 319.611 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	630011
Geodetic Azimuth	290 06 15.21880
Grid Azimuth	291 21 25.35662

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	MENAPORT AZ MK
Ref Mon # 3	630007

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630012	6/5/2019	ARDOT	SCOTT	71	040787

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	627,367.9117	0.0020
Easting (M)	198,752.4972	0.0020
Elevation (M)*	349.092	

Northing (SFT)	2,058,289.5570	
Easting (SFT)	652,073.8179	
Elevation (SFT)*	1,145.313	

Convergence Angle	-1	13	46.0369463	
Scale Factor			0.999985233	
Elevation Adjust. Factor			0.9999452191	
Combined Adjust. Factor			0.9999304529	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	41	49.6288572	
Longitude	94	11	48.0053508	
Ellipsoid Height (M):	318.595			0.0110
Geoid Height (M):	-30.460			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270E, IN Y CITY, GO SOUTH ON HIGHWAY 71 7.95 MILES TO THE MARK ON THE RIGHT, NORTHWEST 46' OF THE C/L OF THE HIGHWAY AND SOUTHWEST 12' OF THE C/L OF FOREST ROAD M 38. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 630012" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	BENCH MARK K 300	292		
MK # 2		19.66		
MK # 3				

AZ Mark Station	630012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's J 300 & K 300 BY S5112 IN JUNE 2019 FOR JOB #040787.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630012A	6/5/2019	ARDOT	SCOTT	7	040787

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	627,758.7353	0.0020
Easting (M)	199,151.8726	0.0020
Elevation (M)*	339.380	

Northing (SFT)	2,059,571.7841	
Easting (SFT)	653,384.1020	
Elevation (SFT)*	1,113.448	

Convergence Angle	-1	13	37.4402236
Scale Factor	0.999985961		
Elevation Adjust. Factor	0.9999467431		
Combined Adjust. Factor	0.9999327049		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	34	42	2.5867188	
Longitude	94	11	32.6455764	
Ellipsoid Height (M):	308.877			0.0110
Geoid Height (M):	-30.470			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 270E, IN Y CITY, GO SOUTH ON HIGHWAY 71 7.7 MILES TO THE MARK ON THE RIGHT, NORTHWEST 18.8' OF THE C/L OF THE HIGHWAY. THE MARK IS AS STANDARD 2 1/2" CAP STAMPED "2019 630012A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	C/L WEST HDWL	226	4.72	15.5
MK # 2				
MK # 3				

AZ Mark Station	630012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	ARLR, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM's J 300 & K 300 BY S5112 IN JUNE 2019 FOR JOB #040787.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630013	4/20/2021	ARDOT	SCOTT	378	040869

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	78,390.6761	0.0030
Easting (M)	200,087.2996	0.0030
Elevation (M)*		
Northing (SFT)	257,186.7432	
Easting (SFT)	656,453.0821	
Elevation (SFT)*		

Convergence Angle	-1	16	29.0616427
Scale Factor	0.999984116		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	1	11.5628268	
Longitude	94	11	26.3524992	
Ellipsoid Height (M):	164.568			0.0110
Geoid Height (M):	-30.755			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 378 AND STATE HIGHWAY 96, IN MANSFIELD, GO EAST ON HIGHWAY 378 5.8 MILES TO RUPE ROAD AND TURN LEFT AND GO 0.1 MILES TO THE MARK ON THE LEFT, NORTHWEST 13.3' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 630013" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	298	1.06	3.5
MK # 2	SOUTHEAST CORNER METAL BLDGING	282	21.12	69.3
MK # 3				

AZ Mark Station	630013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV, OKMC

Comments

ORTHOMETRIC HTS. ON ARDOT CORS SITES ARDQ, ARFS, ARFY & ARRV CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630013A	4/20/2021	ARDOT	SCOTT	378	040869

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	78,782.8674	0.0030
Easting (M)	200,395.8399	0.0030
Elevation (M)*		
Northing (SFT)	258,473.4575	
Easting (SFT)	657,465.3514	
Elevation (SFT)*		

Convergence Angle	-1	16	22.1812956
Scale Factor	0.999983505		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	1	24.5089452	
Longitude	94	11	14.5285476	
Ellipsoid Height (M):	158.965			0.0110
Geoid Height (M):	-30.748			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 378 AND STATE HIGHWAY 96, IN MANSFIELD, GO EAST ON HIGHWAY 378 5.8 MILES TO RUPE ROAD AND TURN LEFT AND GO 0.4 MILES TO THE MARK ON THE LEFT, WEST 12.4' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 630013A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	630013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV, OKMC

Comments

ORTHOMETRIC HTS. ON ARDOT CORS SITES ARDQ, ARFS, ARFY & ARRV CONSTRAINED IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630014	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	44,742.9102	0.0010
Easting (M)	202,610.8371	0.0010
Elevation (M)*		
Northing (SFT)	146,794.0312	
Easting (SFT)	664,732.3881	
Elevation (SFT)*		

Convergence Angle	-1	15	14.2499866
Scale Factor			1.000049527
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			GEOID18
Latitude	34	43	1.7643000
Longitude	94	9	17.7878520
Ellipsoid Height (M):			243.592 0.0040
Geoid Height (M):			-30.454

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 270, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 5.3 MILES TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD ALUMINUM ARDOT GPS CAP STAMPED 630014, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 21FT NORTH OF THE CENTERLINE OF HIGHWAY 71 AND 15FT SOUTH OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH POST OF JESUS IS LORD SIGN	307	30.00	98.4
MK # 2	20IN WHITE OAK	91	29.00	95.1
MK # 3				

AZ Mark Station	630014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM NGS BM H 300.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630014A	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	44,765.8366	0.0010
Easting (M)	202,920.2944	0.0010
Elevation (M)*		

Northing (SFT)	146,869.2489	
Easting (SFT)	665,747.6659	
Elevation (SFT)*		

Convergence Angle	-1	15	7.1864690
Scale Factor			1.000049457
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	43	2.7276600
Longitude	94	9	5.6491200
Ellipsoid Height (M):	250.945		0.0040
Geoid Height (M):	-30.447		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 270, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 5 MILES TO THE STATION ON THE LEFT (SOUTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630014A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 35FT SOUTH OF THE CENTERLINE OF HIGHWAY 71 AND 10FT NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST END OF 18IN CULVERT	243	21.00	68.9
MK # 2				
MK # 3				

AZ Mark Station	630014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM NGS BM H 300.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630015	6/17/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	46,356.5226	0.0010
Easting (M)	207,533.2259	0.0010
Elevation (M)*		

Northing (SFT)	152,088.0246	
Easting (SFT)	680,881.9253	
Elevation (SFT)*		

Convergence Angle	-1	13	22.4981072
Scale Factor	1.000045509		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	43	57.5656320
Longitude	94	6	5.7410280
Ellipsoid Height (M):	202.462	0.0030	
Geoid Height (M):	-30.393		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 270, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 1.4 MILES TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630015, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION 24FT NORTHEAST OF THE CENTERLINE OF HIGHWAY 71 AND 68FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	279	40.00	131.2
MK # 2				
MK # 3				

AZ Mark Station	630015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM NGS BM E 300.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630015A	6/17/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	46,089.3568	0.0010
Easting (M)	207,910.1392	0.0010
Elevation (M)*		

Northing (SFT)	151,211.4981	
Easting (SFT)	682,118.5150	
Elevation (SFT)*		

Convergence Angle	-1	13	13.7490210
Scale Factor			1.000046110
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	43	49.1589120
Longitude	94	5	50.7056280
Ellipsoid Height (M):	209.461		0.0030
Geoid Height (M):	-30.374		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 270, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 1.7 MILES TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630015A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 25FT NORTH OF THE CENTERLINE OF HIGHWAY 71, 17FT NORTHWEST THE CENTER OF A DRIVEWAY, AND 33FT SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST END OF A CULVERT	235	3.00	9.8
MK # 2				
MK # 3				

AZ Mark Station	630015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM NGS BM E 300.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630016	6/17/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	50,345.0206	0.0010
Easting (M)	210,223.3348	0.0010
Elevation (M)*		

Northing (SFT)	165,173.6218	
Easting (SFT)	689,707.7243	
Elevation (SFT)*		

Convergence Angle	-1	12	22.9033083
Scale Factor	1.000036343		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	46	8.8129920
Longitude	94	4	23.3267160
Ellipsoid Height (M):	181.684	0.0040	
Geoid Height (M):	-30.438		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 270, TRAVEL NORTH ALONG HIGHWAY 71 FOR 2.6 MILES TO THE STATION ON THE LEFT (WEST) SIDE OF THE HIGHWAY. THE STATION IS A A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630016, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 32FT NORTHWEST OF THE CENTERLINE OF HIGHWAY 71, 225FT SOUTHWEST OF A GRAVEL DRIVEWAY TO A PINE PLANTATION, AND 15FT SOUTHEAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	35	69.00	226.4
MK # 2				
MK # 3				

AZ Mark Station	630016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630016A	6/17/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	50,015.1964	0.0010
Easting (M)	210,049.9748	0.0010
Elevation (M)*		
Northing (SFT)	164,091.5235	
Easting (SFT)	689,138.9590	
Elevation (SFT)*		

Convergence Angle	-1	12	26.7103182
Scale Factor	1.000037083		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	45	57.9941280
Longitude	94	4	29.8691040
Ellipsoid Height (M):	184.590		0.0040
Geoid Height (M):	-30.434		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 270, TRAVEL NORTH ALONG HIGHWAY 71 FOR 2.4 MILES TO THE STATION ON THE RIGHT (EAST) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630016A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 58FT EAST OF THE CENTERLINE OF HIGHWAY 71, 261FT SOUTH OF A LARGE ROCK, AND 2FT WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18IN PINE	310	17.00	55.8
MK # 2	ROW MARKER (METAL SIGN)	22	43.00	141.1
MK # 3				

AZ Mark Station	630016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM GPS MON 630016

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630017	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	59,259.3782	0.0010
Easting (M)	211,498.2352	0.0010
Elevation (M)*		

Northing (SFT)	194,420.1433	
Easting (SFT)	693,890.4600	
Elevation (SFT)*		

Convergence Angle	-1	11	58.0066121
Scale Factor	1.000017500		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	50	58.8882480
Longitude	94	3	40.5414720
Ellipsoid Height (M):	221.022	0.0030	
Geoid Height (M):	-30.533		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AMD HIGHWAY 71B, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 0.6 MILES TO THE STATION ON THE RIGHT (WEST) SIDE OF THE HIGHWAY.THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630017, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 33FT WEST OF THE CENTERLINE OF HIGHWAY 71 AND 11FT EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH EDGE OF SIGN FOR HARMONY FRE EWILL BAPTIST CHURCH	6	10.00	32.8
MK # 2	FENCE CORNER	325	30.00	98.4
MK # 3				

AZ Mark Station	630017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM GPS MON 630017A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630017A	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	59,586.1859	0.0010
Easting (M)	211,274.6330	0.0010
Elevation (M)*		

Northing (SFT)	195,492.3449	
Easting (SFT)	693,156.8584	
Elevation (SFT)*		

Convergence Angle	-1	12	3.2840508
Scale Factor	1.000016857		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	51	9.3388680
Longitude	94	3	49.6108080
Ellipsoid Height (M):	227.525	0.0030	
Geoid Height (M):	-30.543		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 71B, THRAVEL SOUTH ALONG HIGHWAY 71 FOR 0.3 MILES TO THE STATION ON THE LEFT (EAST) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630017A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 28FT NORTHEAST OF THE NORTHEAST SHOULDER OF HIGHWAY 71 AND 5FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	153	7.00	23.0
MK # 2				
MK # 3				

AZ Mark Station	40882
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630018	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	62,435.6760	0.0010
Easting (M)	208,406.0208	0.0010
Elevation (M)*		

Northing (SFT)	204,841.0470	
Easting (SFT)	683,745.4199	
Elevation (SFT)*		

Convergence Angle	-1	13	10.3671583
Scale Factor	1.000011401		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	52	39.8183160
Longitude	94	5	44.8938600
Ellipsoid Height (M):	188.016		0.0020
Geoid Height (M):	-30.648		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 272, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 0.6 MILES TO THE STATION ON THE LEFT (EAST) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630018, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 37FT NORTHEAST OF THE CENTERLINE OF HIGHWAY 71 AND 52FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	630018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM GPS MON 630018A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630018A	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	62,634.2495	0.0010
Easting (M)	208,126.7428	0.0010
Elevation (M)*		

Northing (SFT)	205,492.5336	
Easting (SFT)	682,829.1553	
Elevation (SFT)*		

Convergence Angle	-1	13	16.8618438
Scale Factor	1.000011031		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	52	46.0675560
Longitude	94	5	56.0550480
Ellipsoid Height (M):	188.515	0.0020	
Geoid Height (M):	-30.657		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 272, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 0.3 MILES TO THE STATION ON THE LEFT (EAST) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630018A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 35FT NORTHEAST OF THE CENTERLINE OF HIGHWAY 71 AND 58FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	240	18.00	59.1
MK # 2				
MK # 3				

AZ Mark Station	630018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630019	6/17/2025	AHTD	Scott	80	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	65,434.5039	0.0010
Easting (M)	206,510.6243	0.0010
Elevation (M)*		
Northing (SFT)	214,679.7015	
Easting (SFT)	677,526.9399	
Elevation (SFT)*		

Convergence Angle	-1	13	55.2641628
Scale Factor	1.000005821		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	54	15.7925880
Longitude	94	7	2.0498520
Ellipsoid Height (M):	171.333	0.0020	
Geoid Height (M):	-30.717		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 80 AND HIGHWAY 71, TRAVEL WEST ALONG HIGHWAY 80 FOR 1 MILE TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630019,2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 30FT NORTH OF THE CENTERLINE OF HIGHWAY 80 AND 11FT SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	113	8.00	26.2
MK # 2	WEST END OF CULVERT	122	2.00	6.6
MK # 3				

AZ Mark Station	630019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630019A	6/17/2025	AHTD	Scott	80	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	65,452.3607	0.0010
Easting (M)	206,084.6816	0.0010
Elevation (M)*		

Northing (SFT)	214,738.2867	
Easting (SFT)	676,129.4929	
Elevation (SFT)*		

Convergence Angle	-1	14	5.0336439
Scale Factor			1.000005805
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	54	16.0743960
Longitude	94	7	18.8388120
Ellipsoid Height (M):	171.682		0.0020
Geoid Height (M):	-30.727		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 80 AND HIGHWAY 71, TRAVEL WEST ALONG HIGHWAY 80 FOR 1.2 MILES TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630019A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 16FT NORTH OF THE CENTERLINE OF HIGHWAY 80 AND 23FT SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	250	18.00	59.1
MK # 2	WOODEN FENCE POST	147	9.00	29.5
MK # 3				

AZ Mark Station	630019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630020	6/17/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	72,088.1108	0.0010
Easting (M)	207,489.9024	0.0010
Elevation (M)*		

Northing (SFT)	236,509.0768	
Easting (SFT)	680,739.7881	
Elevation (SFT)*		

Convergence Angle	-1	13	36.0883822
Scale Factor			0.999994015
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	57	52.3352880
Longitude	94	6	29.0960640
Ellipsoid Height (M):	189.171		0.0020
Geoid Height (M):	-30.669		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 28, TRAVEL NORTH ALONG HIGHWAY 71 FOR 1.8 MILES TO THE STATION ON THE RIGHT (SOUTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT CAP STAMPED 630020, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 34FT SOUTH OF THE CENTERLINE OF HIGHWAY 71, 8FT NORTH OF THE NORTH EDGE OF A RETAINING WALL, AND 7FT NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	269	10.00	32.8
MK # 2	30IN PINE	27	17.00	55.8
MK # 3				

AZ Mark Station	630020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630020A	6/17/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	72,193.7389	0.0010
Easting (M)	207,785.9318	0.0010
Elevation (M)*		

Northing (SFT)	236,855.6250	
Easting (SFT)	681,711.0112	
Elevation (SFT)*		

Convergence Angle	-1	13	29.3514707
Scale Factor			0.999993827
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	57	55.9676520
Longitude	94	6	17.5186080
Ellipsoid Height (M):	199.308		0.0030
Geoid Height (M):	-30.662		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 28, TRAVEL NORTH ALONG HIGHWAY 71 FOR 2 MILES TO THE STATION ON THE LEFT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630020A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 23FT NORTH OF THE CENTERLINE OF HIGHWAY 71, 33FT WEST OF THE CENTER OF AN ASPHAULT APRON FOR A DRIVEWAY, AND 16FT SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	234	15.50	50.9
MK # 2	POWER POLE	83	35.00	114.8
MK # 3				

AZ Mark Station	630020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630021	6/17/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	75,960.9649	0.0010
Easting (M)	207,195.9236	0.0010
Elevation (M)*		

Northing (SFT)	249,215.2657	
Easting (SFT)	679,775.2927	
Elevation (SFT)*		

Convergence Angle	-1	13	44.7355546
Scale Factor			0.999987675
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	59	57.7768920
Longitude	94	6	43.9563240
Ellipsoid Height (M):	148.448		0.0050
Geoid Height (M):	-30.649		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 378, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 1.3 MILES TO THE STATION ON THE LEFT (NORTHEAST) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630021, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAP 4FT IN LENGTH. THE STATION IS 21FT NORTHEAST OF THE CENTERLINE OF HIGHWAY 71 AND 18FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16IN OAK	132	12.00	39.4
MK # 2	18IN OAK	223	13.00	42.7
MK # 3				

AZ Mark Station	630021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630021A	6/17/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	76,164.1863	0.0010
Easting (M)	206,719.5874	0.0010
Elevation (M)*		

Northing (SFT)	249,882.0012	
Easting (SFT)	678,212.5130	
Elevation (SFT)*		

Convergence Angle	-1	13	55.7640956
Scale Factor	0.999987368		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	0	4.0379760
Longitude	94	7	2.9089920
Ellipsoid Height (M):	143.257		0.0050
Geoid Height (M):	-30.657		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 378, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 1.5 MILES TO THE STATION ON THE RIGHT (SOUTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630021A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 32FT SOUTH OF THE CENTERLINE OF HIGHWAY 71, 24FT WEST OF THE CENTER OF A DRIVEWAY, 7FT SOUTHEAST OF THE WEST END OF A CULVERT, AND 4.5FT NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	292	31.50	103.3
MK # 2	NORTHEAST SHED POST	31	5.00	16.4
MK # 3				

AZ Mark Station	630021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630022	6/17/2023	AHTD	Scott	378	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	78,358.2389	0.0010
Easting (M)	204,658.6028	0.0010
Elevation (M)*		

Northing (SFT)	257,080.3221	
Easting (SFT)	671,450.7660	
Elevation (SFT)*		

Convergence Angle	-1	14	44.1431379
Scale Factor	0.999984011		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	1	13.7728200
Longitude	94	8	26.0489040
Ellipsoid Height (M):	160.776		0.0070
Geoid Height (M):	-30.679		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 378 AND HIGHWAY 71, TRAVEL WEST ALONG HIGHWAY 378 FOR 1.2 MILES TO THE STATION ON THE LEFT (SOUTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630022, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 16FT SOUTH OF THE CENTERLINE OF HIGHWAY 378 AND 25FT NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF A CULVERT	275	23.00	75.5
MK # 2				
MK # 3				

AZ Mark Station	630022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630022A	6/17/2025	AHTD	Scott	378	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	78,353.3015	0.0010
Easting (M)	204,954.2377	0.0010
Elevation (M)*		

Northing (SFT)	257,064.1233	
Easting (SFT)	672,420.6949	
Elevation (SFT)*		

Convergence Angle	-1	14	37.3563901
Scale Factor	0.999984009		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	1	13.8210240
Longitude	94	8	14.3858040
Ellipsoid Height (M):	159.125	0.0060	
Geoid Height (M):	-30.674		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 378 AND HIGHWAY 71, TRAVEL WEST ALONG HIGHWAY 378 FOR 1 MILE TO THE STATION ON THE RIGHT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630022A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 25FT NORTH OF THE CENTERLINE OF HIGHWAY 378, 6FT EAST OF THE WEST END OF A CULVERT, AND 13FT SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	240	12.00	39.4
MK # 2	FENCE CORNER	95	27.50	90.2
MK # 3				

AZ Mark Station	630022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630023	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	83,748.1324	0.0010
Easting (M)	201,358.2793	0.0010
Elevation (M)*		

Northing (SFT)	274,763.6644	
Easting (SFT)	660,622.9547	
Elevation (SFT)*		

Convergence Angle	-1	16	2.6153706
Scale Factor			0.999976193
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	4	6.2855400
Longitude	94	10	40.9042920
Ellipsoid Height (M):	152.125		0.0030
Geoid Height (M):	-30.676		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 96, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 4.3 MILES TO THE DTATION ON THE RIGHT (SOUTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630023, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 32FT SOUTH OF THE CENTERLINE OF HIGHWAY 71 AND 29FT NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF A CATTLE GUAR D	40	19.00	62.3
MK # 2	GAS RISER	83	26.00	85.3
MK # 3				

AZ Mark Station	630023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630023A	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	83,899.2365	0.0010
Easting (M)	201,125.8354	0.0010
Elevation (M)*		

Northing (SFT)	275,259.4118	
Easting (SFT)	659,860.3450	
Elevation (SFT)*		

Convergence Angle	-1	16	8.0294974
Scale Factor	0.999975989		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	4	11.0207640
Longitude	94	10	50.2085280
Ellipsoid Height (M):	152.211		0.0030
Geoid Height (M):	-30.678		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 96, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 4.1 MILES TO THE STATION ON THE LEFT (NORTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630023A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 29FT NORTH OF THE CENTERLINE OF HIGHWAY 71 AND 29FT SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	235	11.00	36.1
MK # 2	FENCE CORNER	127	23.00	75.5
MK # 3				

AZ Mark Station	630023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630024	6/23/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	84,502.3235	0.0010
Easting (M)	198,668.1585	0.0010
Elevation (M)*		

Northing (SFT)	277,238.0397	
Easting (SFT)	651,797.1167	
Elevation (SFT)*		

Convergence Angle	-1	17	4.7727205
Scale Factor	0.999975224		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	4	28.8091560
Longitude	94	12	27.7223760
Ellipsoid Height (M):	169.215		0.0030
Geoid Height (M):	-30.712		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 96, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 2.5 MILES TO THE STATION ON THE LEFT (NORTH) SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630024, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 31FT NORTHWEST OF THE CENTERLINE OF HIGHWAY 71 AND 52FT SOUTHEAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SPLIT ELM TREE	56	29.00	95.1
MK # 2	30IN CULVERT	278	6.00	19.7
MK # 3				

AZ Mark Station	630024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
630024A	6/24/2025	AHTD	Scott	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	84,308.5143	0.0010
Easting (M)	198,314.1969	0.0010
Elevation (M)*		

Northing (SFT)	276,602.1840	
Easting (SFT)	650,635.8277	
Elevation (SFT)*		

Convergence Angle	-1	17	12.8008266
Scale Factor			0.999975504
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	4	22.2638520
Longitude	94	12	41.5187640
Ellipsoid Height (M):	175.025		0.0030
Geoid Height (M):	-30.722		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 96, TRAVEL EAST ALONG HIGHWAY 71 FOR 2.3 MILES TO THE STATION ON THE RIGHT (SOUTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 630024A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 21FT SOUTHEAST OF THE CENTER OF HIGHWAY 71 AND 20FT SOUTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY TO A FIELD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	248	14.50	47.6
MK # 2				
MK # 3				

AZ Mark Station	630024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640001	5/15/1995	AHTD	SEARCY	65	009829

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	177,801.3090	
Easting (M)	335,894.6370	
Elevation (M)*	202.022	
Northing (SFT)	583,336.4613	
Easting (SFT)	1,102,014.3216	
Elevation (SFT)*	662.801	

Convergence Angle	0	24	48.2448199
Scale Factor			0.999954502
Elevation Adjust. Factor			0.9999682972
Combined Adjust. Factor			0.9999228006

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	56	1.9913244
Longitude	92	42	37.5649596
Ellipsoid Height (M):	173.230		
Geoid Height (M):	-28.792		

Location Description

FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE AHEAD ON HWY. 65 FOR 1.288 KM (0.80 MILES) TO THE STATION ON THE RIGHT ACROSS THE HIGHWAY FROM THE "BEAR CREEK SPEEDWAY". THE STATION IS 15.3 METERS EAST OF THE CENTER OF HWY. 65, 11.0 METERS SOUTH OF A FIELD ENTRANCE AND 2.34 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640001 1995" SET ON TOP OF A3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2" STEEL GATE POST	5	9.00	29.5
MK # 2	2" STEEL GATE POST	72	2.40	7.9
MK # 3	NONE			

AZ Mark Station	640001A
Geodetic Azimuth	196 52 32.07917
Grid Azimuth	197 17 20.31006

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA 1953
Ref Mon # 2	EVANS AZ 1954
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-6 ON JOB NO. 009829.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640001A	5/15/1995	AHTD	SEARCY	65	009829

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	177,335.4319	
Easting (M)	335,749.6310	
Elevation (M)*	199.766	
Northing (SFT)	581,807.9962	
Easting (SFT)	1,101,538.5810	
Elevation (SFT)*	655.399	

Convergence Angle	0	24	51.5328947
Scale Factor			0.999954058
Elevation Adjust. Factor			0.9999686512
Combined Adjust. Factor			0.9999227106

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	35	55	46.8417612	
Longitude	92	42	43.2155520	
Ellipsoid Height (M):	171.053			
Geoid Height (M):	-28.790			

Location Description

FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 0.773 KM (0.48 MILES) TO THE STATION ON THE LEFT NEAR A POWER POLE IN A HAY FIELD. THE STATION IS 58.0 METERS WEST OF THE CENTER OF HWY. 65 AND 1.25 METERS EAST OF A WITNESS POST SET NEXT TO THE POWER POLE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640001A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	300	1.30	4.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	640001
Geodetic Azimuth	16 52 28.763275
Grid Azimuth	17 17 20.31006

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA 1953
Ref Mon # 2	EVANS AZ 1954
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-5 ON JOB NO. 009829.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640002	5/15/1995	AHTD	SEARCY	65	009829

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	181,843.7159	
Easting (M)	332,673.1920	
Elevation (M)*	288.381	
Northing (SFT)	596,598.9246	
Easting (SFT)	1,091,445.2974	
Elevation (SFT)*	946.130	

Convergence Angle	0	26	3.7412803	
Scale Factor			0.999958551	
Elevation Adjust. Factor			0.9999547457	
Combined Adjust. Factor			0.9999132985	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	35	58	12.3747492	
Longitude	92	44	47.3064504	
Ellipsoid Height (M):			259.552	
Geoid Height (M):			-28.829	

Location Description

FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 7.049 KM (4.38 MILES) TO THE STATION ON THE LEFT IN THE SMALL SETTLEMENT OF "SILVER HILL". THE STATION IS 16.4 METERS WEST OF THE CENTER OF HWY. 65 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640002 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	8" SASSAFRAS TREE	0	12.77	41.9
MK # 2	10" BLACK GUM TREE	190	25.20	82.7
MK # 3	NONE			

AZ Mark Station	640002A
Geodetic Azimuth	171 40 22.0967
Grid Azimuth	172 06 25.8444

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA 1953
Ref Mon # 2	EVANS AZ 1954
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-22 ON JOB NO. 009829.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640002A	5/15/1995	AHTD	SEARCY	65	009829

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)
Northing (M)	181,442.9243
Easting (M)	332,728.6652
Elevation (M)*	285.650
Northing (SFT)	595,283.9941
Easting (SFT)	1,091,627.2957
Elevation (SFT)*	937.170

Convergence Angle	0	26	2.3823931
Scale Factor			0.999958130
Elevation Adjust. Factor			0.9999551742
Combined Adjust. Factor			0.9999133061

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	57	59.3847000
Longitude	92	44	44.9711880
Ellipsoid Height:			
Grid Northing (Meters)			181,442.9243
Grid Easting (Meters)			332,728.6652

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	57	59.3847000
Longitude	92	44	44.9711880
Ellipsoid Height (M):			257.387
Geoid Height (M):			-28.247

Location Description

FROM THE STOP LIGHT AT THE JCT. OF HWY. 65 AND HWY. 27 IN THE TOWN OF MARSHALL, GO NORTH ON HWY. 65 FOR 8.642 KM (5.37 MILES) TO THE JCT. WITH HWY. 74 WEST, CONTINUE NORTH ON HWY. 65 FOR 6.647 KM (4.13 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "BUFFALO OUTDOOR CENTER" IN THE SMALL SETTLEMENT OF "SILVER HILL". THE STATION IS 23.2 METERS SOUTH OF A CONCRETE DRIVEWAY, 8.20 METERS SOUTHWEST OF THE CENTER OF HWY. 65 AND 1.13 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "640002A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST SIGN POST OF BUFFALO OUTDOOR SIGN	243	1.98	6.5
MK # 2	WOODEN FENCE CORNER	330	16.40	53.8
MK # 3	NONE			

AZ Mark Station	640002
Geodetic Azimuth	351 40 23.4692
Grid Azimuth	352 06 25.8444

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA 1953
Ref Mon # 2	EVANS AZ 1954
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING TBM-22 ON JOB NO. 009829.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640003	6/26/1996	AHTD	SEARCY	65	R90098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	183,472.7129	
Easting (M)	332,390.2270	
Elevation (M)*	187.955	
Northing (SFT)	601,943.3922	
Easting (SFT)	1,090,516.9364	
Elevation (SFT)*	616.649	

Convergence Angle	0	26	10.6013012
Scale Factor	0.999960304		
Elevation Adjust. Factor	0.9999705046		
Combined Adjust. Factor	0.9999308098		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	59	5.1576684
Longitude	92	44	59.0954712
Ellipsoid Height (M):	159.116		
Geoid Height (M):	-28.839		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-333 EAST (THIS INTERSECTION IS ABOUT 4.8 KM. SOUTH OF THE SMALL TOWN OF ST. JOE) GO SOUTH ON HWY-65 FOR 2.41 KM. (1.50 MI.) TO THE NORTH END OF A NEW BRIDGE OVER THE BUFFALO RIVER AND THE STATION ON THE RIGHT. 10.4 METERS SOUTH-SOUTHWEST OF THE CENTER OF HWY-65 AND 2.56 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SQUARE CUT SW WING OF BUFFALO RIVER BRIDGE	94	3.79	12.4
MK # 2	PUNCH POINT IN TOP GUARD RAIL POST	0	4.13	13.5
MK # 3	PUNCH POINT IN TOP OF GUARD RAIL POST	317	9.13	30.0

AZ Mark Station	640003A
Geodetic Azimuth	131 29 54.65583
Grid Azimuth	131 56 05.30121

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

THE ELEVATION BY 3-WIRE USING AN AHTD BENCH MARK DISK SET IN THE TOP OF THE SOUTHEAST PARAPET WALL OF BRIDGE #6200 OVER THE BUFFALO RIVER. ELEVATION = 191.781 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640003A	6/26/1996	AHTD	SEARCY	65	R90098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	183,124.2369	
Easting (M)	332,778.1350	
Elevation (M)*	201.507	
Northing (SFT)	600,800.1006	
Easting (SFT)	1,091,789.5979	
Elevation (SFT)*	661.111	

Convergence Angle	0	26	1.5291095
Scale Factor			0.999959926
Elevation Adjust. Factor			0.9999683780
Combined Adjust. Factor			0.9999283052

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	58	53.9469696
Longitude	92	44	43.5048108
Ellipsoid Height (M):	172.671		
Geoid Height (M):	-28.836		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-333 EAST (THIS INTERSECTION IS ABOUT 4.8 KM. SOUTH OF THE SMALL TOWN OF ST. JOE) GO SOUTH ON HWY-65 FOR 2.90 KM. (1.80MI.) TO THE JUNCTION WITH "GRINDERS FERRY ACCESS" ROAD AND THE STATION ON THE LEFT. 14.13 METERS NORTHEAST OF THE CENTER OF HWY-65, 14.05 METERS SOUTHEAST OF THE CENTER OF "GRINDERS FERRY ACCESS" ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RIGHT OF WAY MARKER, REBAR W/CAP	347	27.67	90.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	640003
Geodetic Azimuth	311 30 03.81609
Grid Azimuth	311 56 05.30121

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

THE ELEVATION BY 3-WIRE USING AN AHTD BENCH MARK DISK SET IN THE TOP OF THE SOUTHEAST PARAPET WALL OF BRIDGE #6200 OVER THE BUFFALO RIVER. ELEVATION = 191.781 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640004	6/26/1996	AHTD	SEARCY	65	R90098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	186,160.2619
Easting (M)	329,953.5660
Elevation (M)*	272.475
Northing (SFT)	610,760.7926
Easting (SFT)	1,082,522.6578
Elevation (SFT)*	893.945
Convergence Angle	0 27 7.6962390
Scale Factor	0.999963321
Elevation Adjust. Factor	0.9999572416
Combined Adjust. Factor	0.9999205642

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 0 31.7414556
Longitude	92 46 37.2137448
Ellipsoid Height (M):	243.611
Geoid Height (M):	-28.864

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-374 EAST IN THE SMALL TOWN OF ST. JOE, GO SOUTH ON HWY-65 FOR 3.30 KM. (2.05 MI.) TO THE STATION ON THE RIGHT. 10.2 METERS SOUTHWEST OF THE CENTER OF HWY-65, 10.1 METERS NORTHWEST OF THE CENTER OF A FIELD ENTRANCE WITH A GATE WITH THE NAME "LANE" ON IT AND 1.55 METERS NORTHEAST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	RAILROAD TIE GATE POST	141	7.92	26.0
MK # 2	GUY POLE W/TBM-12	61	19.75	64.8
MK # 3	NONE			

AZ Mark Station	640004A
Geodetic Azimuth	309 37 12.27257
Grid Azimuth	310 04 19.92758

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640004A	6/26/1996	AHTD	SEARCY	65	R90098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	186,446.7409
Easting (M)	329,613.0260
Elevation (M)*	275.077
Northing (SFT)	611,700.6824
Easting (SFT)	1,081,405.4028
Elevation (SFT)*	902.482
Convergence Angle	0 27 15.6619588
Scale Factor	0.999963653
Elevation Adjust. Factor	0.9999568333
Combined Adjust. Factor	0.9999204879

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NGVD 29
Geoid Datum:	
Latitude	36 0 40.9487292
Longitude	92 46 50.9029212
Ellipsoid Height (M):	246.210
Geoid Height (M):	-28.867

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-374 EAST IN THE SMALL TOWN OF ST. JOE, GO SOUTH ON HWY-65 FOR 2.82 KM. (1.75 MI.) TO THE STATION ON THE RIGHT. 56.2 METERS NORTHWEST OF THE CENTER OF A DRIVEWAY, 11.9 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.72 METERS NORTHEAST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	640004
Geodetic Azimuth	129 37 04.22433
Grid Azimuth	130 04 19.92758

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640005	6/26/1996	AHTD	SEARCY	65	R90098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	191,903.0530	
Easting (M)	321,619.3340	
Elevation (M)*	338.455	
Northing (SFT)	629,601.9331	
Easting (SFT)	1,055,179.4316	
Elevation (SFT)*	1,110.414	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	36	3	35.8000416	
Longitude	92	52	12.0404208	
Ellipsoid Height (M):	309.542			
Geoid Height (M):	-28.913			

Convergence Angle	0	30	22.5315898
Scale Factor	0.999970321		
Elevation Adjust. Factor	0.9999468882		
Combined Adjust. Factor	0.9999172108		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65 AND STATE HWY-235 ABOUT 8.0 KM. NORTH OF THE SMALL TOWN OF ST. JOE, GO NORTH ON HWY-65 FOR 0.56KM. (0.35 MI.) TO THE STATION ON THE RIGHT. 48.5 METERS SOUTH-SOUTHEAST OF THE CENTER OF A DRIVEWAY, 9.10 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65 AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640005 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	311	52.50	172.2
MK # 2	WATER VALVE	93	33.25	109.1
MK # 3	NONE			

AZ Mark Station	640005A
Geodetic Azimuth	116 52 44.99952
Grid Azimuth	117 23 07.59126

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640005A	6/26/1996	AHTD	SEARCY	65	R90098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	191,672.1080	
Easting (M)	322,065.1510	
Elevation (M)*	343.538	
Northing (SFT)	628,844.2410	
Easting (SFT)	1,056,642.0829	
Elevation (SFT)*	1,127.091	

Convergence Angle	0	30	12.1186732
Scale Factor	0.999970026		
Elevation Adjust. Factor	0.9999460906		
Combined Adjust. Factor	0.9999161182		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	3	28.4347476
Longitude	92	51	54.1457100
Ellipsoid Height (M):	314.626		
Geoid Height (M):	-28.912		

Location Description

THE STATION IS LOCATED JUST NORTH OF THE JUNCTION OF U.S. HWY-65 AND STATE HWY-235 ABOUT 8.0 KM. NORTH OF THE SMALL TOWN OF ST. JOE. 48.87 METERS NORTHWEST OF THE CENTER OF HWY-235, 12.47 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65 AND 1.38 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640005A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	114	28.12	92.2
MK # 2	COMBINATION POLE	297	24.85	81.5
MK # 3	NONE			

AZ Mark Station	640005
Geodetic Azimuth	296 52 55.53264
Grid Azimuth	297 23 07.59126

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640006	6/26/1996	AHTD	SEARCY	65	R90098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	193,590.2889	
Easting (M)	314,937.5080	
Elevation (M)*	380.444	
Northing (SFT)	635,137.4728	
Easting (SFT)	1,033,257.4742	
Elevation (SFT)*	1,248.173	

Convergence Angle	0	32	58.2665907
Scale Factor	0.999972474		
Elevation Adjust. Factor	0.9999402995		
Combined Adjust. Factor	0.9999127751		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	4	28.5426984
Longitude	92	56	39.6727188
Ellipsoid Height (M):	351.528		
Geoid Height (M):	-28.916		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HWY-65, 65B AND STATE HWY-123 IN WESTERN GROVE, GO SOUTH ON HWY-65 FOR 2.41KM. (1.50 MI.) TO THE STATION ON THE LEFT. 42.23 METERS SOUTH OF THE CENTER OF THE NORTHERN MOST DRIVEWAY, 51.68 METERS NORTH OF THE CENTER OF THE SOUTHERN MOST DRIVEWAY, 9.0 METERS WEST OF THE CENTER OF HWY-65 AND 12.40 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640006 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE WITH TBM-1	348	12.64	41.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	510007
Geodetic Azimuth	328 34 26.10780
Grid Azimuth	329 07 24.34801

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	BURLINGTON
Ref Mon # 3	640002

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640007	10/30/1996	AHTD	SEARCY	65	090280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	167,002.8889	
Easting (M)	348,053.0520	
Elevation (M)*	310.619	
Northing (SFT)	547,908.6447	
Easting (SFT)	1,141,904.0548	
Elevation (SFT)*	1,019.089	

Convergence Angle	0	20	4.5230817
Scale Factor	0.999945656		
Elevation Adjust. Factor	0.9999512561		
Combined Adjust. Factor	0.9998969148		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	14.2010664
Longitude	92	34	29.9860572
Ellipsoid Height (M):	282.773		
Geoid Height (M):	-27.846		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 1.53 KM. (0.95 MI.) TO THE STATION ON THE LEFT. 33.83 METERS SOUTHEAST OF THE CENTER OF SEARCY COUNTY ROAD NUMBER 43, 17.38 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.97 METERS NORTHEAST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	228	1.12	3.7
MK # 2	CENTER OF HEADWALL	356	12.96	42.5
MK # 3	CONCRETE RIGHT OF WAY MARKER	45	35.47	116.4

AZ Mark Station	640007A
Geodetic Azimuth	333 24 27
Grid Azimuth	333 44 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640007-1	10/30/1996	AHTD	SEARCY	65	RX0021

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	310.632	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	1,019.132	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999512541
Combined Adjust. Factor		#Type!

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 1.53 KM. (0.95 MI.) TO THE STATION ON THE LEFT. 33.83 METERS SOUTHEAST OF THE CENTER OF SEARCY COUNTY ROAD NUMBER 43, 17.38 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 0.97 METERS NORTHEAST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	228	1.12	3.7
MK # 2	CENTER OF HEADWALL	356	12.96	42.5
MK # 3	CONCRETE RIGHT OF WAY MARKER	45	35.47	116.4

AZ Mark Station	640007A
Geodetic Azimuth	333 24 29.30973
Grid Azimuth	333 44 33.81435

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640007A	10/30/1996	AHTD	SEARCY	65	090280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	167,529.8810	
Easting (M)	347,793.2540	
Elevation (M)*	303.705	
Northing (SFT)	549,637.6179	
Easting (SFT)	1,141,051.7008	
Elevation (SFT)*	996.405	

Convergence Angle	0	20	10.6187470
Scale Factor			0.999946023
Elevation Adjust. Factor			0.9999523411
Combined Adjust. Factor			0.9998983666

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	31.2507564
Longitude	92	34	40.4615244
Ellipsoid Height (M):	275.050		
Geoid Height (M):	-28.655		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 2.17 KM. (1.35 MI.) TO THE STATION ON THE LEFT, 24.0 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 21.72 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 1.17 METERS EAST-NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	148	15.30	50.2
MK # 2	NORTHWEST END OF METAL PIPE	125	21.65	71.0
MK # 3				

AZ Mark Station	640007
Geodetic Azimuth	153 24 21
Grid Azimuth	153 44 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640007A-1	10/30/1996	AHTD	SEARCY	65	RX0021

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	303.709	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	996.419	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999523404
Combined Adjust. Factor		#Type!

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 66 IN THE SMALL TOWN OF LESLIE GO NORTH ON HWY-65 FOR 2.17 KM. (1.35 MI.) TO THE STATION ON THE LEFT, 24.0 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 21.72 METERS SOUTHWEST OF THE CENTER OF HWY-65 AND 1.17 METERS EAST-NORTHEAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640007A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	148	15.30	50.2
MK # 2	NORTHWEST END OF METAL PIPE	125	21.65	71.0
MK # 3	NONE			

AZ Mark Station	640007
Geodetic Azimuth	153 24 23.17659
Grid Azimuth	153 44 33.81435

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "B 7" SET IN THE OLD LESLIE RAILROAD STATION. ELEVATION = 298.704 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640008	10/30/1996	AHTD	SEARCY	65	RX0021

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	174,930.8740	
Easting (M)	340,046.3950	
Elevation (M)*	287.650	
Northing (SFT)	573,919.0424	
Easting (SFT)	1,115,635.5476	
Elevation (SFT)*	943.732	

Convergence Angle	0	23	11.4127457	
Scale Factor	0.999951880			
Elevation Adjust. Factor	0.9999548604			
Combined Adjust. Factor	0.9999067425			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	54	29.7987444	
Longitude	92	39	51.1579836	
Ellipsoid Height (M):	258.899			
Geoid Height (M):	-28.751			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 333 ON THE NORTH EDGE OF MARSHALL GO EASTERLY ON HWY-65 FOR 0.48 KM. (0.30MI.) TO THE STATION ON THE RIGHT. 10.0 METERS SOUTH OF THE CENTER OF HWY-65 AND 1.67 METERS NORTH OF A WITNESS POST SET NEXT TO A BARBED WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640008 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	262	8.33	27.3
MK # 2	RIGHT OF WAY MARKER SIGN	358	22.84	74.9
MK # 3	WOODEN FENCE POST	98	34.65	113.7

AZ Mark Station	640008A
Geodetic Azimuth	94 36 59.26032
Grid Azimuth	95 00 10.73919

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "W 149" ELEVATION =289.932 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640008A	10/30/1996	AHTD	SEARCY	65	RX0021,090452

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	174,867.2735	0.0019
Easting (M)	340,768.5530	0.0022
Elevation (M)*	286.303	
Northing (SFT)	573,710.3798	
Easting (SFT)	1,118,004.8276	
Elevation (SFT)*	939.312	

Convergence Angle	0	22	54.6434509	
Scale Factor			0.999951828	
Elevation Adjust. Factor			0.9999550717	
Combined Adjust. Factor			0.9999069019	

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)	
Latitude	35	54	27.9046656	
Longitude	92	39	22.3396704	
Ellipsoid Height:			257.558	
Grid Northing (Meters)			174,867.6549	
Grid Easting (Meters)			340,768.5580	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	54	27.8922888	
Longitude	92	39	22.3397676	
Ellipsoid Height (M):			258.217	0.0105
Geoid Height (M):			-28.102	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 333 ON THE NORTH END OF MARSHALL GO EASTERLY ON HWY-65 FOR 1.21 KM. (0.75 MI.) TO A PAVED ROAD RIGHT LEADING TO THE AIRPORT AND THE INDUSTRIAL PARK AND THE STATION ON THE RIGHT. 21.46 METERS SOUTH-SOUTHEAST OF THE CENTER OF HWY-65, 5.32 METERS WEST OF THE PAVED ROAD AND 1.88 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640008A 1996" SET ON TOP OF ANIRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF ROCK ENTRANC E POST	146	2.08	6.8
MK # 2	WOODEN FENCE CORNER POST	251	7.28	23.9
MK # 3	WEST END OF A METAL DRAIN PIPE	303	5.60	18.4

AZ Mark Station	640008
Geodetic Azimuth	274 37 16.16186
Grid Azimuth	275 00 10.73919

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING USC&GS BENCH MARK "W 149" ELEVATION = 289.932.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640009	9/25/2003	AHTD	SEARCY	74	009831

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	175,461.3559	
Easting (M)	328,038.0210	
Elevation (M)*	276.241	
Northing (SFT)	575,659.4651	
Easting (SFT)	1,076,238.0739	
Elevation (SFT)*	906.300	

Convergence Angle	0	27	50.1935115
Scale Factor	0.999952274		
Elevation Adjust. Factor	0.9999566507		
Combined Adjust. Factor	0.9999089268		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	54	44.1189108
Longitude	92	47	50.2457712
Ellipsoid Height (M):	248.072		
Geoid Height (M):	-28.096		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 65 AND HIGHWAY 74, EAST OF SNOWBALL, GO WEST ON HIGHWAY 74 5.9 MILES TO A GRAVEL DRIVE ON THE LEFT THAT LEADS TO McDANIEL CEMETERY, TURN LEFT HERE AND GO 0.05 MILES TO THE STATION ON THE RIGHT, LOCATED AT THE NORTHEAST CORNER OF THE CEMETERY FENCE AND EAST 2.60 METERS OF THE DRIVE AND NORTH 3.30 OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640009 2003" ON TOP OF A 0.60 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY	78	11.10	36.4
MK # 2	POWER POLE	70	18.45	60.5
MK # 3	FENCE CORNER	50	16.50	54.1

AZ Mark Station	640009A
Geodetic Azimuth	49 23 13
Grid Azimuth	49 51 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS
Ref Mon # 2	W. H. PHILLIPS
Ref Mon # 3	TRI COUNTY

Comments

ELEV. ESTABLISHED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 149 BY S5112 FOR JOB #009831 IN AUG. 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640009A	9/25/2003	AHTD	SEARCY	74	009831

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	176,140.6559
Easting (M)	328,843.3180
Elevation (M)*	259.872
Northing (SFT)	577,888.1352
Easting (SFT)	1,078,880.1191
Elevation (SFT)*	852.595
Convergence Angle	0 27 31.6301063
Scale Factor	0.999952896
Elevation Adjust. Factor	0.9999592193
Combined Adjust. Factor	0.9999121173

Vertical Determined By:	3rd Order - Digital Levels
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 96
Latitude	35 55 6.3694416
Longitude	92 47 18.3443568
Ellipsoid Height (M):	231.706
Geoid Height (M):	-28.107

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 65, EAST OF SNOWBALL, GO WEST ON HIGHWAY 74 5.05 MILES TO COUNTY ROAD 34 ON THE RIGHT, TURN RIGHT HERE AND GO 0.20 MILES TO THE STATION ON THE LEFT, NORTH 4.90 METERS OF THE CENTERLINE AND SOUTH 1.30 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640009A 2003" ON TOP OF A 0.87 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	640009
Geodetic Azimuth	229 23 32
Grid Azimuth	229 51 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS
Ref Mon # 2	W. H. PHILLIPS
Ref Mon # 3	TRI COUNTY

Comments

ELEV. ESTABLISHED BY DIGITAL LEVELS FROM NGS 2ND ORDER BM K 149 BY S5112 FOR JOB #009831 IN AUG. 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640010	9/25/2003	AHTD	SEARCY	377	BR6401

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	173,109.1199
Easting (M)	325,599.9120
Elevation (M)*	238.344
Northing (SFT)	567,942.1709
Easting (SFT)	1,068,239.0446
Elevation (SFT)*	781.968

Convergence Angle	0	28	46.3210202
Scale Factor			0.999950213
Elevation Adjust. Factor			0.9999625974
Combined Adjust. Factor			0.9999128123

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	53	27.1482756	
Longitude	92	49	26.7015072	
Ellipsoid Height (M):	210.211			
Geoid Height (M):	-28.058			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 TO COUNTY ROAD 5 ON THE LEFT, TURN LEFT ON COUNTY ROAD 5 AND GO 0.35 MILES TO THE STATION ON THE RIGHT, SOUTH 3.60 METERS OF THE CENTERLINE AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640010 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BLACK WALNUT	69	21.00	68.9
MK # 2				
MK # 3				

AZ Mark Station	640010A
Geodetic Azimuth	220 39 50
Grid Azimuth	221 08 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS
Ref Mon # 2	W. H. PHILLIPS
Ref Mon # 3	TRI COUNTY

Comments

3-WIRE LEVELS RAN FROM NGS MARK L 149 BY CREW S5109 IN MAY 2008. *NOTE: REPORTED DESTROYED IN AUG. 2012 BY S5112 & REPLACED WITH GPS 640014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640010A	9/25/2003	AHTD	SEARCY	377	009831,BR6401

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	172,461.7458	
Easting (M)	325,034.2921	
Elevation (M)*	243.596	
Northing (SFT)	565,818.2443	
Easting (SFT)	1,066,383.3400	
Elevation (SFT)*	799.199	

Convergence Angle	0	28	59.3179369
Scale Factor			0.999949670
Elevation Adjust. Factor			0.9999617733
Combined Adjust. Factor			0.9999114452

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	53	5.9896968
Longitude	92	49	49.0362564
Ellipsoid Height:			215.479
Grid Northing (Meters)			172,461.7449
Grid Easting (Meters)			325,034.3070

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	53	5.9897220
Longitude	92	49	49.0368504
Ellipsoid Height (M):	215.552		
Geoid Height (M):	-28.045		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 74 AND HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 1.6 MILES TO THE STATION ON THE RIGHT, WEST 10.2 METERS OF THE CENTERLINE AND EAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "640010A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	640010
Geodetic Azimuth	40 39 37
Grid Azimuth	41 08 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS
Ref Mon # 2	W. H. PHILLIPS
Ref Mon # 3	TRI COUNTY

Comments

PREVIOUS ELEV. (243.601 m) BY 3-WIRE LEVELS RAN FROM NGS MARK L 149 BY CREW S5109 IN MAY 2008. *UPDATED ELEV. BY DIGITAL LEVELS RE-RAN FROM NGS 2ND ORDER BM L 149 IN AUG. 2012 BY S5112 & CHECKED AGAINST STATIC GPS SET-UP ON 2ND ORDER NGS BM TT 72 TX. *Note: Used elev. on this monument from digital levels in final static adjustment.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640011	12/5/2008	AHTD	SEARCY	66	050164

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	165,958.3779	
Easting (M)	349,231.7600	
Elevation (M)*	296.546	
Northing (SFT)	544,481.7782	
Easting (SFT)	1,145,771.1993	
Elevation (SFT)*	972.918	

Convergence Angle	0	19	37.0541102
Scale Factor	0.999944950		
Elevation Adjust. Factor	0.9999534644		
Combined Adjust. Factor	0.9998984170		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	40.5310764
Longitude	92	33	42.7803300
Ellipsoid Height (M):	268.716		
Geoid Height (M):	-27.830		

Location Description

The station is located on the east edge of a vacant lot at the southeast corner of the intersection of highways 65 and 66 in Leslie. 152.0 feet northeast of the center of hwy-65, 81.0 feet southeast of the center of hwy-66 and 1.50 feet southwest of a witness post.The station mark is a 2 1/2 inch cap stamped "640011 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Service pole	2	7.92	26.0
MK # 2	Southwest corner of a bridge	334	20.27	66.5
MK # 3	Combination pole	310	19.60	64.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640012	2/28/2011	AHTD	Searcy	27	090304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,819.3259	
Easting (M)	330,640.5100	
Elevation (M)*	265.094	
Northing (SFT)	547,306.4051	
Easting (SFT)	1,084,776.4066	
Elevation (SFT)*	869.729	

Convergence Angle	0	26	48.2299864
Scale Factor	0.999945447		
Elevation Adjust. Factor	0.9999583998		
Combined Adjust. Factor	0.9999038491		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	4.3929024
Longitude	92	46	3.7607772
Ellipsoid Height (M):	237.161		
Geoid Height (M):	-27.933		

Location Description

To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 5 miles to the station on the right, 30 feet northwest of the centerline of Highway 27and 18.5 feet southeast of a witness post. The station mark is a standard 2 1/2" cap stamped "640012 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of gate	262	7.01	23.0
MK # 2	Center of boc culvert	181	13.87	45.5
MK # 3	Combination pole	14	43.89	144.0

AZ Mark Station	640012A
Geodetic Azimuth	188 41 28
Grid Azimuth	189 08 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640012A	2/28/2011	AHTD	Searcy	27	090304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	167,305.1840
Easting (M)	330,718.6570
Elevation (M)*	263.067
Northing (SFT)	548,900.4245
Easting (SFT)	1,085,032.7938
Elevation (SFT)*	863.079

Convergence Angle	0	26	46.5058141
Scale Factor	0.999945784		
Elevation Adjust. Factor	0.9999587179		
Combined Adjust. Factor	0.9999045042		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	50	20.1768504
Longitude	92	46	0.7977684
Ellipsoid Height (M):	235.128		
Geoid Height (M):	-27.940		

Location Description

To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 4.7 miles to the station on the right, 29 feet west of the centerline of Highway 27and 6 feet east of a witness post. The station mark is a standard 2 1/2" cap stamped "640012A 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" by 24" arched RCP w/ flared end section	196	36.58	120.0
MK # 2	Combination Pole	296	14.33	47.0
MK # 3				

AZ Mark Station	640012
Geodetic Azimuth	8 41 26
Grid Azimuth	9 08 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640013	3/1/2011	AHTD	Searcy	27	090304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	164,042.7310
Easting (M)	329,325.1090
Elevation (M)*	289.725
Northing (SFT)	538,196.8600
Easting (SFT)	1,080,460.7951
Elevation (SFT)*	950.539

Convergence Angle	0	27	18.2174378
Scale Factor			0.999943633
Elevation Adjust. Factor			0.9999545348
Combined Adjust. Factor			0.9998981703

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	48	33.9671340	
Longitude	92	46	55.2945396	
Ellipsoid Height (M):	261.824			
Geoid Height (M):	-27.900			

Location Description

To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 7 miles to the station on the left, 30.5 feet east of the centerline of Highway 27and 12.5 feet west of a witness post. The station mark is a standard 2 1/2" cap stamped "640013 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Center of gate	83	5.49	18.0
MK # 2	Center of double box culvert	232	18.29	60.0
MK # 3	Center of single box culvert	9	23.47	77.0

AZ Mark Station	640013A
Geodetic Azimuth	36 12 57
Grid Azimuth	36 40 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640013A	3/1/2011	AHTD	Searcy	27	090304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	163,843.5980	
Easting (M)	329,176.8320	
Elevation (M)*	293.610	
Northing (SFT)	537,543.5378	
Easting (SFT)	1,079,974.3230	
Elevation (SFT)*	963.285	

Convergence Angle	0	27	21.6175612
Scale Factor	0.999943510		
Elevation Adjust. Factor	0.9999539251		
Combined Adjust. Factor	0.9998974377		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	27.4677624
Longitude	92	47	1.1376888
Ellipsoid Height (M):	265.708		
Geoid Height (M):	-27.902		

Location Description

To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 7.2 miles to the station on the right, 34.5 feet west of the centerline of Highway 27, 1.5 feet east of a witness post, 1.5 feet east of a fence and 127 feet south of the center of a gravel driveway. The station mark is a standard 2 1/2" cap stamped "640013A 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	640013
Geodetic Azimuth	216 13 01
Grid Azimuth	216 40 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640014	8/16/2012	AHTD	SEARCY	N/A	009831

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	173,081.1041	
Easting (M)	325,487.1695	
Elevation (M)*	239.233	
Northing (SFT)	567,850.2557	
Easting (SFT)	1,067,869.1553	
Elevation (SFT)*	784.885	

Convergence Angle	0	28	48.9314383
Scale Factor	0.999950188		
Elevation Adjust. Factor	0.9999624579		
Combined Adjust. Factor	0.9999126477		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	53	26.2086504
Longitude	92	49	31.1875392
Ellipsoid Height (M):	211.176		
Geoid Height (M):	-28.058		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 74 AND STATE HIGHWAY 377, IN SNOWBALL, GO SOUTH ON HIGHWAY 377 FOR 1.2 MILES TO LICK FORK ROAD ON THE LEFT, TURN LEFT HERE (EAST) AND GO 0.05 MILES TO THE MARK ON THE RIGHT, AT THE SOUTHEAST CORNER OF THE LICK FORK BRIDGE AND SOUTH 19 FEET OF THE CENTERLINE OF THE ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "640014 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER BRIDGE	271	6.10	20.0
MK # 2				
MK # 3				

AZ Mark Station	640010A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	P777
Ref Mon # 2	MOBR
Ref Mon # 3	W H PHILLIPS

Comments

ELEVATIONS FROM L 149 USING DIGITAL 3 WIRE LEVELS BY CREW S5112 ON 8/2012. CHECKED AGAINST 640009 WHICH HAD ELEVATIONS FROM K 149 USING DIGITAL 3 WIRE LEVELS AND BY OCCUPYING TT 72 TX WITH GPS BY CREW S5112 ON 8/2012 (digital level loop elev. on this monumbent used as constraint in final static adjustment). *Note: This monument was set to replace GPS #640010 that was found destroyed by S5112 in Aug. 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640015	10/7/2015	AHTD	SEARCY	65	090452

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	174,930.9713	0.0019
Easting (M)	339,969.6583	0.0022
Elevation (M)*	289.177	0.0013
Northing (SFT)	573,919.3617	
Easting (SFT)	1,115,383.7873	
Elevation (SFT)*	948.742	

Convergence Angle	0	23	13.1936251	
Scale Factor			0.999951880	
Elevation Adjust. Factor			0.9999546207	
Combined Adjust. Factor			0.9999065029	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	54	29.7850968	
Longitude	92	39	54.2184444	
Ellipsoid Height (M):			261.080	0.0105
Geoid Height (M):			-28.109	

Location Description

TO REACH FROM THE JUNCTION OF HWY. 333 AND HWY. 65 IN MARSHALL. GO EAST ON HWY. 65 FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 64 FT. SOUTH OF THE CENTERLINE OF HWY. 65, AND 4 FT. NORTH OF A WITNESS POST. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "640015 2015" SET ONTOP OF A 5/8 IN. BY 2 FT REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE POST	174	1.40	4.6
MK # 2	18" CORRUGATED METAL PIPE	77	11.30	37.1
MK # 3	COMBINATION POLE	101	21.30	69.9

AZ Mark Station	640008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	P777
Ref Mon # 3	TRI COUNTY

Comments

Three wire ran in October 2015, by crew S5102 using NGS BM Y6.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640016	5/16/2017	AHTD	SEARCY	65	090498

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	179,325.2630	0.0030
Easting (M)	334,546.2722	0.0030
Elevation (M)*	196.120	
Northing (SFT)	588,336.3004	
Easting (SFT)	1,097,590.5614	
Elevation (SFT)*	643.436	

Convergence Angle	0	25	19.8074839
Scale Factor	0.999955981		
Elevation Adjust. Factor	0.9999692234		
Combined Adjust. Factor	0.9999252057		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	35	56	51.1175076	
Longitude	92	43	31.8057420	
Ellipsoid Height (M):	167.918			0.0060
Geoid Height (M):	-28.218			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.2 MILES TO THE MARK ON LEFT, EAST 32.4 FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016" ON TOP OF A 4' REBAR TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.2 MILES TO THE MARK ON LEFT, EAST 32.4 FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016" ON TOP OF A 4' REBAR DRIVEN TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.2 MILES TO THE MARK ON LEFT, EAST 32.4 FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	30	26.21	86.0
MK # 2	36" FLARED END CONCRETE CULVERT	23	26.52	87.0
MK # 3				

AZ Mark Station	640016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	P777
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S V 346 & W 346 FOR JOB #090498 IN MAY 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640016A	5/16/2017	AHTD	SEARCY	65	090498

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	178,808.2476	0.0030
Easting (M)	334,751.6522	0.0030
Elevation (M)*	196.468	
Northing (SFT)	586,640.0590	
Easting (SFT)	1,098,264.3789	
Elevation (SFT)*	644.579	

Convergence Angle	0	25	14.9506486
Scale Factor	0.999955471		
Elevation Adjust. Factor	0.9999691687		
Combined Adjust. Factor	0.9999246411		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	35	56	34.3918248	
Longitude	92	43	23.4592176	
Ellipsoid Height (M):	168.281			0.0070
Geoid Height (M):	-28.211			0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND THE BUFFALO NATIONAL RIVER BRIDGE, NORTHWEST OF MARSHALL, GO SOUTH ON HIGHWAY 65 3.55 MILES TO THE MARK ON LEFT, NORTHEAST 40.5 FEET OF THE C/L OF THE HIGHWAY AND 5.5' NORTHWEST OF THE C/L OF A FIELD ROAD ENTRANCE.THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640016A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FOC	316	7.16	23.5
MK # 2				
MK # 3				

AZ Mark Station	640016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	P777
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S V 346 & W 346 FOR JOB #090498 IN MAY 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640017	5/16/2017	AHTD	SEARCY	65	090498

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	189,112.4848	0.0040
Easting (M)	326,933.0754	0.0040
Elevation (M)*	240.404	
Northing (SFT)	620,446.5439	
Easting (SFT)	1,072,612.9315	
Elevation (SFT)*	788.724	

Convergence Angle	0	28	18.4463249	
Scale Factor	0.999966835			
Elevation Adjust. Factor	0.9999622743			
Combined Adjust. Factor	0.9999291105			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	36	2	6.7343316
Longitude	92	48	38.7985392
Ellipsoid Height (M):	212.077	0.0080	
Geoid Height (M):	-28.305	0.0080	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 374W, IN SAINT JOE, GO NORTH ON 65 0.5 MILES TO THE MARK ON THE LEFT, WEST 31' OF THE C/L OF THE HIGHWAY, 11.6' NORTH AN ASPHAULT FIELD ROAD AND EAST 8.9' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	640017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	P777
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S Q 347 & R 347 FOR JOB #090498 IN MAY 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640017A	5/16/2017	AHTD	SEARCY	65	090498

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	189,585.6884	0.0040
Easting (M)	326,960.2703	0.0040
Elevation (M)*	250.115	
Northing (SFT)	621,999.0460	
Easting (SFT)	1,072,702.1535	
Elevation (SFT)*	820.587	

Convergence Angle	0	28	17.9047509	
Scale Factor	0.999967423			
Elevation Adjust. Factor	0.9999607503			
Combined Adjust. Factor	0.9999281746			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	36	2	22.0942968
Longitude	92	48	37.8678384
Ellipsoid Height (M):	221.789	0.0080	
Geoid Height (M):	-28.305	0.0080	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 374W, IN SAINT JOE, GO NORTH ON 65 0.8 MILES TO THE MARK ON THE RIGHT, EAST 32.3' OF THE C/L OF THE HIGHWAY AND WEST 6.8' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 640017A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	173	34.44	113.0
MK # 2				
MK # 3				

AZ Mark Station	640017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	P777
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM 2ND ORDER AHTD/NGS BM'S Q 347 & R 347 FOR JOB #090498 IN MAY 2017.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640018	10/17/2022	ARDOT	SEARCY	65	090672

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)
Northing (M)	166,403.7974
Easting (M)	348,629.1636
Elevation (M)*	
Northing (SFT)	545,943.1253
Easting (SFT)	1,143,794.1809
Elevation (SFT)*	
Convergence Angle	0 19 51.0845420
Scale Factor	0.999945247
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	49	54.8711760
Longitude	92	34	6.8917800
Ellipsoid Height (M):	269.935		
Geoid Height (M):	-27.957		

Location Description

THE INTERSECTION OF US HIGHWAY 65 AND AR STATE HIGHWAY 66 LOCATED IN LESILE, SEARCY COUNTY ARKANSAS. TRAVEL NORTH ALONG US HIGHWAY 65 0.8 MILES TO THE STATION ON THE RIGHT 44 FEET NORTHEAST OF THE CENTER LINE OF THE HIGHWAYAND 17 FEET SOUTHWEST OF A WITNESS POST. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS CAP STAMPED 640018A, 2022 SET AT GROUND LEVEL ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	DOLLAR GENERAL SIGN	355	13.70	44.9
MK # 2	NORTH END OF A HEAD WALL	148	23.50	77.1
MK # 3				

AZ Mark Station	640018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARRV
Ref Mon # 3	ARBT

Comments

70 FT SOUTHEAST OF THE CENTER LINE OF A CONCRETE DRIVEWAY LEADING TO DOLLAR GENERAL. 25 FT SOUTHWEST OF THE EDGE OF A CONCRETE PARKING LOT FOR DOLLAR GENERAL.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
640018A	10/17/2022	ARDOT	Searcy	65	090672

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	166,775.6644	
Easting (M)	348,295.1553	
Elevation (M)*		
Northing (SFT)	547,163.1590	
Easting (SFT)	1,142,698.3553	
Elevation (SFT)*		

Convergence Angle	0	19	58.8788015
Scale Factor	0.999945500		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	50	6.8741880
Longitude	92	34	20.2863000
Ellipsoid Height (M):	280.301		
Geoid Height (M):	-27.962		

Location Description

THE INTERSECTION OF US HIGHWAY 65 AND AR STATE HIGHWAY 66 LOCATED IN LESILE, SEARCY COUNTY ARKANSAS. TRAVEL NORTH ALONG US HIGHWAY 65 0.5 MILES TO THE STATION ON THE RIGHT 50.0 FEET NORTHEAST OF THE CENTER LINE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5 INCH ARDOT GPS CAP STAMPED 640018, 2022 SET AT GROUND LEVEL ON TOP OF A 5/8 INCH REBAR 4 FOOT IN LENGTH.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	47	5.50	18.0
MK # 2	WATERLINE STAND PIPE	100	6.10	20.0
MK # 3	NORTHWEST COR. BLOCK BLD.	8	21.30	69.9

AZ Mark Station	640018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARRV
Ref Mon # 3	ARBT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650001	1/23/1992	AHTD	SEBASTIAN	253	40110

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	109,050.7290
Easting (M)	179,194.1140
Elevation (M)*	
Northing (SFT)	357,777.2667
Easting (SFT)	587,906.0223
Elevation (SFT)*	
Convergence Angle	-1 24 45.8372911
Scale Factor	0.999948891
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 17 30.3131328
Longitude	94 25 40.0668708
Ellipsoid Height (M):	146.288
Geoid Height (M):	-30.112

Location Description

FROM THE ARKANSAS-OKLAHOMA STATE LINE, GO EAST ON HWY. 253 0.45 MILES TO THE STATION ON THE LEFT, THE STATION IS 32.0 FEET NORTH OF THE CENTERLINE OF HWY. 253 IN FRONT OF TWIN CITIES CONCRETE PLANT, 78.0 FEET SOUTHEAST OF THE CONCRETE PLANT DRIVEWAY AND 2.7 FEET NORTH OF A WITNESS POST AND R/W FENCE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	79	7.40	24.3
MK # 2	NBC IN TOP OF FENCE POST	255	5.08	16.7
MK # 3	NBC IN TOP OF FENCE POST	269	13.50	44.3

AZ Mark Station	92650001A AZ. MK.
Geodetic Azimuth	67 29 26
Grid Azimuth	68 54 12

Area Reference Monuments (used for Processing)

Ref Mon # 1	GUNN
Ref Mon # 2	FORT SMITH GIS 103
Ref Mon # 3	GEORGE

Comments

(OLD PN = 92650001)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650002	1/23/1992	AHTD	SEBASTIAN	45	40110

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	105,660.4651	
Easting (M)	179,104.2820	
Elevation (M)*		
Northing (SFT)	346,654.3759	
Easting (SFT)	587,611.2985	
Elevation (SFT)*		

Convergence Angle	-1	24	45.9804879
Scale Factor	0.999951738		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	40.2608592
Longitude	94	25	40.3129560
Ellipsoid Height (M):	117.586		
Geoid Height (M):	-30.220		

Location Description

THE STATION IS 0.24 MILES SOUTH OF THE JCT. OF HWY. 253 AND HWY. 45, 117.0 FEET WEST OF THE CENTERLINE OF HWY. 45, 130.0 FEET NORTHEAST OF A 12" ELM TREE AND 3.74 FEET NORTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	92650002A AZ. MK.
Geodetic Azimuth	318 46 13
Grid Azimuth	320 10 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	GUNN
Ref Mon # 2	FORT SMITH GIS 103
Ref Mon # 3	GEORGE

Comments

(OLD PN = 92650002)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650002A	1/23/1992	AHTD	SEBASTIAN	45	40110

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	105,873.7271	
Easting (M)	178,926.4920	
Elevation (M)*		
Northing (SFT)	347,354.0530	
Easting (SFT)	587,027.9992	
Elevation (SFT)*		

Convergence Angle	-1	24	50.1934750
Scale Factor	0.999951555		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	47.0368008
Longitude	94	25	47.5530204
Ellipsoid Height (M):	121.653		
Geoid Height (M):	-30.215		

Location Description

THE STATION IS 0.07 MILES SOUTH OF JCT. OF HWY. 253 AND HWY. 45 SOUTH OF FT.SMITH, 260.0 FEET WEST OF HWY. 45 ON THE ENTRANCE ROAD TO BROWNWOOD ESTATES, 20.0 FEET NORTHEST OF A PECAN TREE, 16.0 FEET NORTHEAST OF THE END OF A WOOD FENCE AND 2.30 FEET NORTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	235	4.77	15.7
MK # 2	NBC IN TOP OF FENCE POST	80	2.61	8.6
MK # 3	NBC IN TOP OF FENCE POST	10	19.90	65.3

AZ Mark Station	92650002
Geodetic Azimuth	138 46 09
Grid Azimuth	140 10 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	GUNN
Ref Mon # 2	FORT SMITH GIS 103
Ref Mon # 3	GEORGE

Comments

(OLD PN = 92650002A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650003	4/20/1992	AHTD	SEBASTIAN	71	40103

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	92,218.4111	
Easting (M)	193,074.1520	
Elevation (M)*	211.202	
Northing (SFT)	302,553.2371	
Easting (SFT)	633,444.1137	
Elevation (SFT)*	692.919	

Convergence Angle	-1	19	17.3144313
Scale Factor	0.999965394		
Elevation Adjust. Factor	0.9999668566		
Combined Adjust. Factor	0.9999322518		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	35.0048472
Longitude	94	16	15.4967520
Ellipsoid Height (M):	180.000		
Geoid Height (M):	-31.206		

Location Description

FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 14.10 MILES TO A PAVED COUNTY ROAD ON THE RIGHT, THE STATION IS 43 FEET WEST OF THE CENTERLINE OF HWY. 71, 32 FEET EAST OF THE CENTERLINE OF COUNTY ROAD IN A LAWN AND 2.42 FEET EAST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 30" POST OAK	181	28.17	92.4
MK # 2	NBC IN TELEPHONE POLE	158	8.69	28.5
MK # 3	NBC IN 30" POST OAK	307	11.32	37.1

AZ Mark Station	92650003A AZ. MK.
Geodetic Azimuth	136 21 51
Grid Azimuth	137 41 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	GEORGE
Ref Mon # 3	NONE

Comments

(OLD PN = 92650003)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650003A	4/20/1992	AHTD	SEBASTIAN	71	40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	91,930.5701	
Easting (M)	193,336.1980	
Elevation (M)*	216.643	
Northing (SFT)	301,608.8787	
Easting (SFT)	634,303.8429	
Elevation (SFT)*	710.770	

Convergence Angle	-1	19	11.1396105
Scale Factor	0.999965734		
Elevation Adjust. Factor	0.9999660028		
Combined Adjust. Factor	0.9999317380		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	25.8628200
Longitude	94	16	4.8852552
Ellipsoid Height (M):	185.441		
Geoid Height (M):	-31.208		

Location Description

FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 14.30 MILES TO THE STATION ON THE LEFT, THE STATION IS 42 FEET NORTH OF THE CENTERLINE OF HWY. 71 AND 1.52 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	313	4.76	15.6
MK # 2	NBC IN TOP OF FENCE POST	123	4.16	13.6
MK # 3	NBC IN TOP OF FENCE POST	127	10.37	34.0

AZ Mark Station	92650003
Geodetic Azimuth	316 21 57
Grid Azimuth	317 41 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	GEORGE
Ref Mon # 3	NONE

Comments

(OLD PN = 92650003A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650004A	4/20/1992	AHTD	SEBASTIAN	71	40103

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	98,158.1661
Easting (M)	191,546.6340
Elevation (M)*	162.940
Northing (SFT)	322,040.5833
Easting (SFT)	628,432.5817
Elevation (SFT)*	534.579

Convergence Angle	-1	19	55.5944787
Scale Factor			0.999958722
Elevation Adjust. Factor			0.9999744301
Combined Adjust. Factor			0.9999331531

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	11	46.5512424	
Longitude	94	17	21.2814312	
Ellipsoid Height (M):	131.882			
Geoid Height (M):	-31.079			

Location Description

FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 10.33 MILES TO THE BRIDGE OVER ADAMSON CREEK, THE STATION IS 21.5 FEET SOUTH OF THE SOUTHEAST BRIDGE END, 25 FEET EAST OF THE CENTERLINE OF HWY. 71 AND 2.0 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	"X" CUT IN SE BRIDGE WINGWALL	344	3.08	10.1
MK # 2	"X" CUT IN TOP OF GUARD RAIL POST	328	2.84	9.3
MK # 3	"X" CUT IN TOP OF GUARD RAIL POST	180	5.38	17.7

AZ Mark Station	92650004
Geodetic Azimuth	351 42 57
Grid Azimuth	353 02 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	GEORGE
Ref Mon # 3	NONE

Comments

(OLD PN = 92650004A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650005	4/20/1992	AHTD	SEBASTIAN	71	40103, 040469, 040823

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	101,181.9138	0.0030
Easting (M)	189,993.2641	0.0030
Elevation (M)*	191.753	
Northing (SFT)	331,960.9955	
Easting (SFT)	623,336.2340	
Elevation (SFT)*	629.110	

Convergence Angle	-1	20	32.9472802
Scale Factor	0.999955671		
Elevation Adjust. Factor	0.9999699086		
Combined Adjust. Factor	0.9999255809		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	35	13	23.4770448
Longitude	94	18	25.4634084
Ellipsoid Height:	160.740		
Grid Northing (Meters)	101,182.1581		
Grid Easting (Meters)	189,993.5030		

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	13	23.4689376
Longitude	94	18	25.4726280
Ellipsoid Height (M):	161.246		0.0050
Geoid Height (M):	-30.501		0.0050

Location Description

FROM THE JCT. OF I-540 AND HWY. 71 IN FORT SMITH, GO SOUTH ON HWY. 71 8.10 MILES TO THE STATION ON THE RIGHT, THE STATION IS 60 FEET WEST OF THE CENTERLINE OF THE SOUTHBOUND LANE OF HWY. 71, 46 FEET SOUTH OF THE CENTERLINE OF A COUNTY ROAD AND 5.35 FEET NORTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN TOP OF FENCE POST	142	3.02	9.9
MK # 2	NBC IN POWER POLE	262	47.36	155.4
MK # 3	NBC IN COMINATION POLE	286	57.00	187.0

AZ Mark Station	92650005A AZ. MK.
Geodetic Azimuth	90 53 24
Grid Azimuth	92 13 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

PRE-HARN REF. MARKS WERE PINNACLE & GEORGE & SUPERCEDED GEOID HT. WAS -31.013m (OLD PN = 92650005)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650005A	4/20/1992	AHTD	SEBASTIAN	10	40103, 040469

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	101,163.4111
Easting (M)	190,474.4160
Elevation (M)*	194.886
Northing (SFT)	331,900.2913
Easting (SFT)	624,914.8132
Elevation (SFT)*	639.388

Convergence Angle	-1	20	21.8684736
Scale Factor			0.999955679
Elevation Adjust. Factor			0.9999694170
Combined Adjust. Factor			0.9999250973

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	23.2340700
Longitude	94	18	6.4335780
Ellipsoid Height (M):	163.860		
Geoid Height (M):	-31.008		

Location Description

FROM THE JCT. OF HWY. 71 AND HWY. 10S SOUTH OF FORT SMITH, GO EAST ON HWY. 10S 0.23 MILES TO THE STATION ON THE RIGHT, THE STATION IS 33 FEET SOUTH OF THE CENTERLINE OF HWY. 10S AND 2.00 FEET NORTH OF A WITNESS POST IN A VACANT LOT WEST OF GREENWOOD AUTO SALES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	130	46.33	152.0
MK # 2	NBC IN COMBINATION POLE	90	33.50	109.9
MK # 3	NBC IN COMBINATION POLE	35	28.44	93.3

AZ Mark Station	92650005
Geodetic Azimuth	270 53 35
Grid Azimuth	272 13 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	GEORGE
Ref Mon # 3	NONE

Comments

(OLD PN = 92650005A)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650006	3/24/1998	AHTD	SEBASTIAN	N/A	001747,040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,368.5514	0.0010
Easting (M)	193,223.6909	0.0010
Elevation (M)*	121.241	
Northing (SFT)	368,662.4891	
Easting (SFT)	633,934.7259	
Elevation (SFT)*	397.773	

Convergence Angle	-1	19	24.5767908
Scale Factor	0.999946140		
Elevation Adjust. Factor	0.9999809736		
Combined Adjust. Factor	0.9999271147		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	19	28.8153912
Longitude	94	16	27.9772428
Ellipsoid Height:	91.213		
Grid Northing (Meters)	112,368.5641		
Grid Easting (Meters)	193,223.6900		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	35	19	28.8149772
Longitude	94	16	27.9771960
Ellipsoid Height (M):	91.081		0.0020
Geoid Height (M):	-30.153		0.0020

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT AND A PAVED ROAD ON THE LEFT, GO LEFT NORTHWEST ON PAVED ROAD FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT NORTH ON GRAVEL ROAD FOR 0.56 KM (0.35 MI) TO THE JUNCTION OF A GRAVEL ROAD, GO RIGHT EAST ON THE GRAVEL ROAD FOR 1.21 KM (0.75 MI) TO A CURVE TO THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS 25.372 METERS SOUTHEAST OF THE CENTER OF THE GRAVEL ROAD AND 1.90 METERS WEST OF A WITNESS POST AND A BARBED WIRE FENCE. THE STATION MARK IS STANDARD 64mm CAP STAMPED "650006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as SU 111 in job 001747

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER POST	177	60.18	197.4
MK # 2	TELEPHONE JUNCTION BOX	300	36.60	120.1
MK # 3	GUY POLE	304	40.51	132.9

AZ Mark Station	650006A
Geodetic Azimuth	272 11 01.79806
Grid Azimuth	273 30 26.42257

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (FS 2)
Ref Mon # 2	ARHR, (Q 299)
Ref Mon # 3	OKHV, (GAYLOR)

Comments

THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS -30.038m AND PREVIOUS ELEV. WAS 121.201m.
********** 3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650006A	3/24/1998	AHTD	SEBASTIAN	N/A	001747,040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,408.5346	0.0010
Easting (M)	192,571.5380	0.0010
Elevation (M)*	122.585	
Northing (SFT)	368,793.6673	
Easting (SFT)	631,795.1209	
Elevation (SFT)*	402.181	

Convergence Angle	-1	19	39.6197891
Scale Factor			0.999946122
Elevation Adjust. Factor			0.9999807628
Combined Adjust. Factor			0.9999268858

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	19	29.6225832
Longitude	94	16	53.8295844
Ellipsoid Height:			92.525
Grid Northing (Meters)			112,408.5371
Grid Easting (Meters)			192,571.5170

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12A			
Latitude	35	19	29.6225184	
Longitude	94	16	53.8287528	
Ellipsoid Height (M):			92.420	0.0030
Geoid Height (M):			-30.160	0.0030

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT AND A PAVED ROAD ON THE LEFT, GO LEFT NORTHWEST ON PAVED ROAD FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, GO RIGHT NORTH ON GRAVEL ROAD FOR 0.56 KM (0.35 MI) TO THE JUNCTION OF A GRAVEL ROAD, GO RIGHT EAST ON GRAVEL ROAD FOR 0.56 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.70 METERS NORTH OF THE CENTER OF THE GRAVEL ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.Used as SU 110 in job 001747

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	24	15.81	51.9
MK # 2	SOUTH END OF A 0.80 METER RCP	103	48.92	160.5
MK # 3	NORTH END OF A 0.80 METER RCP	93	47.25	155.0

AZ Mark Station	650006
Geodetic Azimuth	92 10 46.849963
Grid Azimuth	93 30 26.422565

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (FS 2)
Ref Mon # 2	ARHR, (Q 299)
Ref Mon # 3	OKHV, (GAYLOR)

Comments

THERE WAS NO PREVIOUS DOCUMENTATION OF WHAT THE PUBLISHED ELEVATION IS BASED ON. THE PREVIOUS GEOID HT. WAS -30.046m AND PREVIOUS ELEV. WAS 122.518m.
********** 3/7/2017
GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC &

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650007	3/24/1998	AHTD	SEBASTIAN	N/A	001747,040457,040458

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	110,741.5361	
Easting (M)	189,931.9870	
Elevation (M)*	145.389	
Northing (SFT)	363,324.5230	
Easting (SFT)	623,135.1940	
Elevation (SFT)*	476.997	

Convergence Angle	-1	20	39.5177486
Scale Factor	0.999947382		
Elevation Adjust. Factor	0.9999771842		
Combined Adjust. Factor	0.9999245674		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	33.5463732
Longitude	94	18	36.7640496
Ellipsoid Height (M):	115.297		
Geoid Height (M):	-30.128		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FOR CHAFFEE ON THE RIGHT, GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 1.93 KM (1.20 MI) TO ST. MARYS CEMETERY ON THE RIGHT AND THE STATION ON THE LEFT. THE STATION IS 14.916 METERS SOUTH OF THE CENTER OF ROBERTS BOULEVARD, 5.325 METERS EAST OF THE EXTENDED CENTER OF A PAVED ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARED 64mm CAP STAMPED "650007 1998" SET ON THE TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.Used as SU 105 in job 001747

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF MAN HOLE COVER	90	41.62	136.6
MK # 2	0.40 METER PERSIMMON TREE	275	11.95	39.2
MK # 3	CORNER POST OF A CHAIN LINK FENCE	4	24.68	81.0

AZ Mark Station	650007A
Geodetic Azimuth	272 33 47.79849
Grid Azimuth	273 54 27.37270

Area Reference Monuments (used for Processing)

Ref Mon # 1	FS 2
Ref Mon # 2	Q 299
Ref Mon # 3	GAYLOR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650007A	3/24/1998	AHTD	SEBASTIAN	N/A	001747,040458

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	110,791.3421	
Easting (M)	189,202.8390	
Elevation (M)*	134.962	
Northing (SFT)	363,487.9282	
Easting (SFT)	620,742.9810	
Elevation (SFT)*	442.788	

Convergence Angle	-1	20	56.3365737
Scale Factor			0.999947358
Elevation Adjust. Factor			0.9999788205
Combined Adjust. Factor			0.9999261796

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	18	34.6060656	
Longitude	94	19	5.6673840	
Ellipsoid Height (M):	104.864			
Geoid Height (M):	-30.137			

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT, GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.74 KM (1.70 MI) TO THE STATION SET IN THE MIDDLE OF ROBERTS BOULEVARD. THE STATION IS 6.700 METERS NORTH OF THE SOUTH EDGE OF THE SHOULDER, 6.599 METERS SOUTH OF THE NORTH EDGE OF THE SHOULDER AND 7.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED 650007A 1998" SET ON TOP OF AN IRON ROD 0.50 METERS LONG AND DRIVEN FLUSH WITH THE PAVEMENT.Used as HPT 705 in job 001747

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	47	35.11	115.2
MK # 2	EAST END OF SOUTH HEADWALL	256	40.58	133.1
MK # 3	EAST END OF NORTH HEADWALL	277	40.96	134.4

AZ Mark Station	650007
Geodetic Azimuth	92 33 31.092575
Grid Azimuth	93 54 27.372701

Area Reference Monuments (used for Processing)

Ref Mon # 1	FS 2
Ref Mon # 2	Q 299
Ref Mon # 3	GAYLOR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650008	3/24/1998	AHTD	SEBASTIAN	N/A	001747

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,954.8391	
Easting (M)	188,168.2780	
Elevation (M)*	141.999	
Northing (SFT)	357,462.6679	
Easting (SFT)	617,348.7587	
Elevation (SFT)*	465.875	

Convergence Angle	-1	21	19.1612457
Scale Factor			0.999948794
Elevation Adjust. Factor			0.9999777162
Combined Adjust. Factor			0.9999265114

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	17	34.2361752	
Longitude	94	19	44.8918320	
Ellipsoid Height (M):	111.825			
Geoid Height (M):	-30.203			

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT. GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.98 KM (1.85 MI) TO A CURVE TO THE RIGHT, CONTINUE WEST STRAIGHT AHEAD FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF 9TH AVENUE, GO LEFT SOUTH ON 9TH AVENUE FOR 1.21 KM (0.75 MI) TO THE JUNCTION OF A PAVED ROAD AND A GRAVEL ROAD STRAIGHT AHEAD, CONTINUE SOUTH ON GRAVEL ROAD FOR 0.89 KM (0.55 MI) TO A "T" JUNCTION, GO RIGHT NORTHWEST ON A GRAVEL ROAD FOR 0.16 KM (0.10 MI) TO THE STATION ON THE LEFT. THE STATION IS 26.00 METERS NORTHWEST OF A GRAVEL ROAD 10.00 METERS SOUTHWEST OF A GRAVEL ROAD TO A LAKE AND 0.50 METERS NORTHEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as HPT 704 in job 001747

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST END OF A 0.35 METER CMP	116	23.00	75.5
MK # 2				
MK # 3				

AZ Mark Station	650008A
Geodetic Azimuth	310 13 12.06650
Grid Azimuth	311 34 31.25771

Area Reference Monuments (used for Processing)

Ref Mon # 1	FS 2
Ref Mon # 2	Q 299
Ref Mon # 3	GAYLOR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650008A	3/24/1998	AHTD	SEBASTIAN	N/A	001747

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	109,273.4611
Easting (M)	187,809.0940
Elevation (M)*	145.181
Northing (SFT)	358,508.0136
Easting (SFT)	616,170.3359
Elevation (SFT)*	476.315

Convergence Angle	-1	21	27.6051749
Scale Factor			0.999948549
Elevation Adjust. Factor			0.9999772169
Combined Adjust. Factor			0.9999257671

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	44.2966056
Longitude	94	19	59.4028164
Ellipsoid Height (M):	115.007		
Geoid Height (M):	-30.199		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN BARLING GO EAST ON STATE HIGHWAY 22 FOR 1.90 KM (1.18 MI) TO THE MAIN ENTRANCE TO FORT CHAFFEE ON THE RIGHT, GO RIGHT SOUTH PASS A GAURD HOUSE ON 4TH AVENUE FOR 2.10 KM (1.25 MI) TO A STOP SIGN AND THE JUNCTION OF ROBERTS BOULEVARD, GO RIGHT WEST ON ROBERTS BOULEVARD FOR 2.98 KM (1.85 MI) TO A CRUVE TO THE RIGHT, CONTINUE WEST STRAIGHT AHEAD FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF 9TH AVENUE, GO LEFT SOUTH ON 9TH AVENUE FOR 1.21 KM (0.75 MI) TO THE JUNCTION OF A PAVED ROAD AND A GRAVEL ROAD STRAIGHT AHEAD, CONTINUE SOUTH ON GRAVEL ROAD FOR 0.89 KM (0.55 MI) TO A "T" JUNCTION, GO RIGHT NORTHWEST ON A GRAVEL ROAD FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.32 METERS SOUTHWEST OF THE CENTER OF A GRAVEL ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. Used as VPT 611

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	650008
Geodetic Azimuth	130 13 03.68242
Grid Azimuth	131 34 31.25771

Area Reference Monuments (used for Processing)

Ref Mon # 1	FS 2
Ref Mon # 2	Q 299
Ref Mon # 3	GAYLOR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650010	8/26/1998	AHTD	SEBASTIAN	10	040246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	97,045.5591	
Easting (M)	200,956.1770	
Elevation (M)*	200.386	
Northing (SFT)	318,390.3051	
Easting (SFT)	659,303.7240	
Elevation (SFT)*	657.433	

Convergence Angle	-1	16	18.6270152
Scale Factor	0.999959682		
Elevation Adjust. Factor	0.9999685539		
Combined Adjust. Factor	0.9999282372		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	11	17.3942412
Longitude	94	11	8.4204780
Ellipsoid Height (M):	170.112		
Geoid Height (M):	-30.274		

Location Description

TO REACH THE STATION FROM THE JUNCION OF STATE HIGHWAY 10 AND STATE HIGHWAY 96, LOCATED ON THE EAST SIDE OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 6.28 KM (3.90 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.987 METERS WEST OF THE CENTER OF A PAVED DRIVE, 9.703 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 1.08 METERS SOUTH OF A WEB WIRE FENCE AND 0.73 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	180	21.80	71.5
MK # 2	0.36 METER PINE TREE	161	26.02	85.4
MK # 3	WEST END OF A 0.50 METER RCP	93	36.10	118.4

AZ Mark Station	650010A
Geodetic Azimuth	94 05 05.383516
Grid Azimuth	95 21 23.956984

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650010A	8/26/1998	AHTD	SEBASTIAN	10	040246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	97,000.5841	
Easting (M)	201,435.8400	
Elevation (M)*	197.546	
Northing (SFT)	318,242.7497	
Easting (SFT)	660,877.4184	
Elevation (SFT)*	648.116	

Convergence Angle	-1	16	7.5739793
Scale Factor			0.999959719
Elevation Adjust. Factor			0.9999689996
Combined Adjust. Factor			0.9999287198

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	11	16.2802212	
Longitude	94	10	49.4257152	
Ellipsoid Height (M):	167.260			
Geoid Height (M):	-30.266			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 96, LOCATED ON THE EAST SIDE OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 6.84 KM (4.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.55 METERS WEST OF THE CENTER OF A GRAVEL PASTURE ENTRANCE, 9.15 METERS SOUTH OF THE CENTER OF STATE HIGWAY 10, 1.44 METERS NORTH OF A BARBED WIRE FENCE AND 1.19 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650010A 1998" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN GATE POST	143	15.75	51.7
MK # 2	IRON PIPE CORNER POST	102	8.13	26.7
MK # 3	WEST END OF RCP	79	8.20	26.9

AZ Mark Station	650010
Geodetic Azimuth	274 05 16.32946
Grid Azimuth	275 21 23.95698

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

Elevations based on 3 wire from NGS point V 45

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650011	8/26/1998	AHTD	SEBASTIAN	10	040246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	96,006.3271	
Easting (M)	208,216.8590	
Elevation (M)*	183.188	
Northing (SFT)	314,980.7582	
Easting (SFT)	683,124.8116	
Elevation (SFT)*	601.009	

Convergence Angle	-1	13	31.1494734
Scale Factor	0.999960643		
Elevation Adjust. Factor	0.9999712527		
Combined Adjust. Factor	0.9999318968		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	48.8130168
Longitude	94	6	20.6084952
Ellipsoid Height (M):	153.006		
Geoid Height (M):	-30.173		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 (9.00 MII) EAST OF GREENWOOD, GO WEST ON STATE HIGHWAY 10 FOR 0.48KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.959 METERS EAST OF THE CENTER OF A PAVED DRIVE, 9.307 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 2.38 METERS NORTH OF A BARDED WIRE FENCE AND 2.03 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650011 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSS TIE CORNER POST	228	3.46	11.4
MK # 2	CENTER OF HEADWALL	278	36.08	118.4
MK # 3				

AZ Mark Station	650011A
Geodetic Azimuth	278 05 21.28710
Grid Azimuth	279 18 52.48547

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

Elevations based on 3 wire from NGS point V 45

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650011A	8/26/1998	AHTD	SEBASTIAN	10	040246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	96,076.7111	
Easting (M)	207,787.7350	
Elevation (M)*	191.815	
Northing (SFT)	315,211.6763	
Easting (SFT)	681,716.9272	
Elevation (SFT)*	629.313	

Convergence Angle	-1	13	41.0513063
Scale Factor	0.999960576		
Elevation Adjust. Factor	0.9999698989		
Combined Adjust. Factor	0.9999304761		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	50.7983520
Longitude	94	6	37.6249032
Ellipsoid Height (M):	161.615		
Geoid Height (M):	-30.178		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 KM (9.00 MI) EAST OF GREENWOOD, GO WEST ON STATE HIGHWAY 10 FOR 0.97 KM (0.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.33 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 0.91 METERS SOUTH OF A BARBED WIRE FENCE AND 0.77 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650011A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSS TIE IN LINE BRACE POST	274	15.15	49.7
MK # 2				
MK # 3				

AZ Mark Station	650011
Geodetic Azimuth	98 05 11.483023
Grid Azimuth	99 18 52.485469

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

Elevations based on 3 wire from NGS point V 45

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650012	8/26/1998	AHTD	SEBASTIAN	10	040246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	95,353.0791	
Easting (M)	214,178.9710	
Elevation (M)*	181.267	
Northing (SFT)	312,837.5603	
Easting (SFT)	702,685.5074	
Elevation (SFT)*	594.707	

Convergence Angle	-1	11	13.7452335
Scale Factor	0.999961228		
Elevation Adjust. Factor	0.9999715541		
Combined Adjust. Factor	0.9999327832		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	31.6925472
Longitude	94	2	24.4778100
Ellipsoid Height (M):	151.158		
Geoid Height (M):	-30.097		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 KM (9.00 MI) EAST OF GREENWOOD, GO EAST ON STATE HIGWHAY 10 FOR 5.87 KM (3.65 MI) TO THE STATION ON THE RIGHT. THE STATION IS 11.485 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 1.75 METERS NORTH OF A WHITE PLASTIC FENCE AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650012 1998" SET ON TOP OF AN IRON ROD 0.35 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	263	38.85	127.5
MK # 2				
MK # 3				

AZ Mark Station	650012A
Geodetic Azimuth	281 53 53.38686
Grid Azimuth	283 05 07.17300

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

Elevations based on 3 wire from NGS point V 45

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650012A	8/26/1998	AHTD	SEBASTIAN	10	040246

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	95,435.4461	
Easting (M)	213,824.6090	
Elevation (M)*	171.953	
Northing (SFT)	313,107.7927	
Easting (SFT)	701,522.9047	
Elevation (SFT)*	564.149	

Convergence Angle	-1	11	21.9322771
Scale Factor	0.999961144		
Elevation Adjust. Factor	0.9999730157		
Combined Adjust. Factor	0.9999341607		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	34.1263200
Longitude	94	2	38.5473336
Ellipsoid Height (M):	141.816		
Geoid Height (M):	-30.101		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 KM (9.00 MI) EAST OF GREENWOOD, GO EAST ON STATE HIGHWAY 10 FOR 5.47 KM (3.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.73 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.53 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650012A 1998" SET ON TOP OF AND IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED "X" IN CONCRETE GUARD RAIL POST	98	8.37	27.5
MK # 2	CHISELED "X" IN CONCRETE GUARD RAIL POST	145	1.11	3.6
MK # 3	CHISELED "X" IN CONCRETE GUARD RAIL POST	265	5.05	16.6

AZ Mark Station	650012
Geodetic Azimuth	101 53 45.28160
Grid Azimuth	103 05 07.17300

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS2
Ref Mon # 2	OZARPORT
Ref Mon # 3	Q 299

Comments

Elevations based on 3 wire from NGS point V 45

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650013	11/30/2001	AHTD	SEBASTIAN	45	040344

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,232.0562
Easting (M)	179,817.0160
Elevation (M)*	
Northing (SFT)	335,406.3377
Easting (SFT)	589,949.6600
Elevation (SFT)*	
Convergence Angle	-1 24 27.6378889
Scale Factor	0.999954886
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 13 49.6118784
Longitude	94 25 8.7909996
Ellipsoid Height (M):	135.535
Geoid Height (M):	-30.511

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 45 IN HACKETT, GO NORTH ON STATE HIGHWAY 45 FOR 5.31 KM (3.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.85 METERS SOUTH OF THE CENTER OF A PAVED FIELD ENTRANCE, 9.24 METERS EAST OF THE CENTER OF STATE HIGHWAY 45, AND 0.78 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 648.542 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL FENCE POST	146	4.90	16.1
MK # 2	METAL FENCE POST	4	4.38	14.4
MK # 3	TELEPHONE POLE	160	18.45	60.5

AZ Mark Station	650013A
Geodetic Azimuth	350 19 34
Grid Azimuth	351 44 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	L 298
Ref Mon # 3	AHTD FS 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650013A	11/30/2001	AHTD	SEBASTIAN	45	040344

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,873.8191
Easting (M)	179,723.7800
Elevation (M)*	
Northing (SFT)	337,511.8548
Easting (SFT)	589,643.7682
Elevation (SFT)*	
Convergence Angle	-1 24 30.1459030
Scale Factor	0.999954274
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	14	10.3564716
Longitude	94	25	13.1010492
Ellipsoid Height (M):	127.642		
Geoid Height (M):	-30.495		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 45 IN HACKETT, GO NORTH ON STATE HIGHWAY 45 FOR 5.95 KM (3.70 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.15 METERS EAST OF THE CENTER OF STATE HIGHWAY 45 AND 1.05 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 648.542 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE POLE	350	13.70	44.9
MK # 2				
MK # 3				

AZ Mark Station	650013
Geodetic Azimuth	170 19 32
Grid Azimuth	171 44 02

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	L 298
Ref Mon # 3	AHTD FS 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650014	11/30/2001	AHTD	SEBASTIAN	45	040344

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	100,255.2291	
Easting (M)	180,686.8070	
Elevation (M)*		
Northing (SFT)	328,920.6975	
Easting (SFT)	592,803.2993	
Elevation (SFT)*		

Convergence Angle	-1	24	6.5142181
Scale Factor	0.999956819		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	12	46.1749500
Longitude	94	24	32.4897408
Ellipsoid Height (M):	162.716		
Geoid Height (M):	-30.553		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 45 IN HACKETT, GO NORTH ON STATE HIGHWAY 45 FOR 2.38 KM (1.48 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.85 METERS WEST OF THE CENTER OF STATE HIGHWAY 45, 11.00 METERS SOUTH OF THE CENTER OF THE NORTHERN MOST PAVED ENTRANCE TO MOUNTAIN VIEW CEMETERY, AND 0.92 METERS WEST OF A WITNESS POST, OUTSIDE THE CHAINLINK FENCE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650014 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL CHAIN LINK FENCE POST	32	4.15	13.6
MK # 2	NORTH CORNER CARL MILLER GRAVE STO NE	298	5.00	16.4
MK # 3	SOUTH CORNER WASH PIGG GRAVE STON E	226	4.70	15.4

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	L 298
Ref Mon # 3	AHTD FS 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650015	9/24/2002	AHTD	SEBASTIAN	252	040111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	85,463.7680
Easting (M)	193,288.8890
Elevation (M)*	
Northing (SFT)	280,392.3788
Easting (SFT)	634,148.6300
Elevation (SFT)*	
Convergence Angle	-1 19 8.8046467
Scale Factor	0.999974067
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 4 56.0341704
Longitude	94 16 0.8725944
Ellipsoid Height (M):	151.982
Geoid Height (M):	-30.664

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 252 IN HUNTINGTON, GO WEST ON STATE HIGHWAY 252 FOR 0.20 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.90 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 252, 7.00 METERS EAST OF THE CENTER OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650015 2002" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END REINFORCED CONCRETE PIPE	339	4.40	14.4
MK # 2	CABLE POLE	82	18.65	61.2
MK # 3	MAN HOLE COVER	264	19.15	62.8

AZ Mark Station	650015A
Geodetic Azimuth	89 12 36
Grid Azimuth	90 31 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	SALISAW 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650015A	9/24/2002	AHTD	SEBASTIAN	N/A	040111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,459.1001	
Easting (M)	193,794.3510	
Elevation (M)*		
Northing (SFT)	280,377.0642	
Easting (SFT)	635,806.9666	
Elevation (SFT)*		

Convergence Angle	-1	18	57.1942187
Scale Factor	0.999974058		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	4	56.2598688
Longitude	94	15	40.9199472
Ellipsoid Height (M):	165.522		
Geoid Height (M):	-30.655		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71, STATE HIGHWAY 252, AND BROADWAY STREET IN HUNTINGTON, GO EAST ON BROADWAY STREET FOR 0.11 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.60 METERS NORTH OF THE CENTER OF EAST BROADWAY STREET AND 8.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "650015A 2002" SET ON TOP OF AN IRON ROD 0.30 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	281	20.50	67.3
MK # 2	CHAIN LINK CORNER POST	357	8.20	26.9
MK # 3				

AZ Mark Station	650015
Geodetic Azimuth	269 12 48
Grid Azimuth	270 31 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	AHTD FS 2
Ref Mon # 3	SALISAW 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650016	10/12/2004	AHTD	SEBASTIAN	22	)40439,040458,040716,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,454.9458	0.0020
Easting (M)	190,859.3927	0.0020
Elevation (M)*	146.802	
Northing (SFT)	368,945.9347	
Easting (SFT)	626,177.8575	
Elevation (SFT)*	481.633	

Convergence Angle	-1	20	19.0821646
Scale Factor			0.999946118
Elevation Adjust. Factor			0.9999769625
Combined Adjust. Factor			0.9999230818

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	19	29.8356204
Longitude	94	18	1.6457400
Ellipsoid Height:			116.731
Grid Northing (Meters)			112,454.9490
Grid Easting (Meters)			190,859.3810

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	19	29.8355232	
Longitude	94	18	1.6452756	
Ellipsoid Height (M):			116.618	0.0030
Geoid Height (M):			-30.179	0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN BARLING, GO EAST ON STATE HIGHWAY 22 0.1 MILES TO THE STATION MARK ON THE LEFT, 10.7 METERS WEST OF AN ASPH. DRIVE TURN IN, AND NORTHEAST 9.3 METERS OF THE HIGHWAY AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650016 2004" 0N TOP OF A 1.00 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	113	13.10	43.0
MK # 2	SOUTHEAST CORNER OF BLOCK BLDING	323	17.80	58.4
MK # 3				

AZ Mark Station	650016A
Geodetic Azimuth	121 26 33
Grid Azimuth	122 46 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (650006)
Ref Mon # 2	ARHR (650007)
Ref Mon # 3	OKHV (AHTD FS 2)

Comments

PREVIOUS ELEV. (146.8373m) 3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006
**********NEW ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650016A	10/12/2004	AHTD	SEBASTIAN	22	)40487,040457,040458,04071(

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,162.1798	0.0020
Easting (M)	191,313.9876	0.0020
Elevation (M)*	129.952	
Northing (SFT)	367,985.4182	
Easting (SFT)	627,669.3077	
Elevation (SFT)*	426.350	

Convergence Angle	-1	20	8.4538129
Scale Factor			0.999946318
Elevation Adjust. Factor			0.9999796068
Combined Adjust. Factor			0.9999259259

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	19	20.6824764
Longitude	94	17	43.3805280
Ellipsoid Height:			99.888
Grid Northing (Meters)			112,162.1901
Grid Easting (Meters)			191,313.9830

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	19	20.6821452
Longitude	94	17	43.3803372
Ellipsoid Height (M):	99.766		0.0030
Geoid Height (M):	-30.182		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN BARLING, GO EAST ON STATE HIGHWAY 22 0.45 MILES TO THE STATION MARK ON THE RIGHT, 13.7 METERS EAST OF AN ASPH. DRIVE, AND SOUTH 18.6 METERS OF THE HIGHWAY AND NORTH 0.15 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650016A 2004" 0N TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANDT	132	6.35	20.8
MK # 2	TELEPHONE RISER	113	8.70	28.5
MK # 3				

AZ Mark Station	650016
Geodetic Azimuth	301 26 44
Grid Azimuth	302 46 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (650006)
Ref Mon # 2	ARHR (650007)
Ref Mon # 3	OKHV (AHTD FS 2)

Comments

PREVIOUS ELEV. (129.9662m) 3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006
**********NEW ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650017	10/12/2004	AHTD	SEBASTIAN	22	040439,040487

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	111,766.9911	
Easting (M)	196,086.7840	
Elevation (M)*	144.134	
Northing (SFT)	366,688.8700	
Easting (SFT)	643,328.0572	
Elevation (SFT)*	472.879	

Convergence Angle	-1	18	18.3121864	
Scale Factor	0.999946523			
Elevation Adjust. Factor	0.9999773812			
Combined Adjust. Factor	0.9999239054			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	19	11.4305664	
Longitude	94	14	34.1007504	
Ellipsoid Height (M):	114.094			
Geoid Height (M):	-30.012			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN CENTRAL CITY, GO EAST ON STATE HIGHWAY 22 0.55 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 12.8 METERS OF THE HIGHWAY AND NORTH 5.8 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650017 2004" 0N TOP OF A 1.00 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	94	23.90	78.4
MK # 2				
MK # 3				

AZ Mark Station	650017A
Geodetic Azimuth	271 00 10
Grid Azimuth	272 18 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	650006
Ref Mon # 2	650007
Ref Mon # 3	AHTD FS 2

Comments

3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650017A	10/12/2004	AHTD	SEBASTIAN	22	040439

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	111,781.2191
Easting (M)	195,733.7570
Elevation (M)*	140.918
Northing (SFT)	366,735.5497
Easting (SFT)	642,169.8344
Elevation (SFT)*	462.328

Convergence Angle	-1	18	26.4508496
Scale Factor			0.999946518
Elevation Adjust. Factor			0.9999778859
Combined Adjust. Factor			0.9999244050

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	11.6310000
Longitude	94	14	48.0871320
Ellipsoid Height (M):	110.881		
Geoid Height (M):	-30.017		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 22, IN CENTRAL CITY, GO EAST ON STATE HIGHWAY 22 0.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 15.5 METERS OF THE HIGHWAY AND SOUTH 2.85 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650017A 2004" 0N TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650017
Geodetic Azimuth	91 00 02
Grid Azimuth	92 18 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	650006
Ref Mon # 2	650007
Ref Mon # 3	AHTD FS 2

Comments

3-wire levels were ran from NGS B257, M297, and L297 in Job 040439 by S5103 in Jan 2006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650018	11/16/2005	AHTD	SEBASTIAN	10	040443

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	96,005.7682	
Easting (M)	208,214.4140	
Elevation (M)*	183.228	
Northing (SFT)	314,978.9245	
Easting (SFT)	683,116.7899	
Elevation (SFT)*	601.141	

Convergence Angle	-1	13	31.2054181
Scale Factor	0.999960644		
Elevation Adjust. Factor	0.9999712464		
Combined Adjust. Factor	0.9999318915		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	48.7931880
Longitude	94	6	20.7046368
Ellipsoid Height (M):	153.033		
Geoid Height (M):	-30.173		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 252, LOCATED ABOUT 14.50 (9.00 MII) EAST OF GREENWOOD, GO WEST ON STATE HIGHWAY 10 FOR 0.48KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 36.8 METERS EAST OF THE CENTER OF A PAVED DRIVE, 10.6 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, AND 1.30 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "650018 2004" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CROSS TIE POST	131	2.60	8.5
MK # 2	WOODEN CROSS TIE POST	185	1.50	4.9
MK # 3				

AZ Mark Station	650011A
Geodetic Azimuth	278 12 53
Grid Azimuth	279 26 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD FS 2, OZARPORT
Ref Mon # 2	Q 299, 650011A, 650010
Ref Mon # 3	650012, 650012A, 650010A

Comments

ELEVATION OBTAINED BY 3 WIRE LEVEL 5/3/2005 BY CREW S5102 USING 650011A AS A BENCH MARK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650019	3/15/2011	AHTD	Sebastian	CR 35	BR6506

Zone	Zone Code
Arkansas South	
Horizontal Datum	
Northing (M)	#Error
Easting (M)	#Error
Elevation (M)*	
Northing (SFT)	#Type!
Easting (SFT)	#Type!
Elevation (SFT)*	
Convergence Angle	### ### #Error
Scale Factor	#Error
Elevation Adjust. Factor	
Combined Adjust. Factor	#Type!

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

Location Description

To reach the station from the intersection of Highway 252 and Highway 71 in Sebastian County, north of Huntington, go north on Highway 71 for 0.3 miles to CR 35 (School House Rd), turn left (west) for 1.3 miles to the station on the left, 1.5 feet north of a witness post and 26 feet south of the centerline of CR 35. The staion mark is a standard 2 1/2" cap stamped "650019 2011" and set on top of a 4 foot long rebasr driven 0.2 feet below ground level.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Water meter	248	8.23	27.0
MK # 2	Power pole with guy	103	10.06	33.0
MK # 3	NE corner of mobile home	194	24.84	81.5

AZ Mark Station	650019A
Geodetic Azimuth	266 17 22
Grid Azimuth	267 37 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL5
Ref Mon # 2	OKHV
Ref Mon # 3	A 299, 650015A

Comments

Digital levels were run from A 299 by crew S5102 during job BR6506

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650019A	3/15/2011	AHTD	Sebastian	CR 35	BR6506

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	88,571.2041	
Easting (M)	192,125.3610	
Elevation (M)*	175.650	
Northing (SFT)	290,587.3588	
Easting (SFT)	630,331.2885	
Elevation (SFT)*	576.280	

Convergence Angle	-1	19	37.1780871
Scale Factor			0.999969971
Elevation Adjust. Factor			0.9999724355
Combined Adjust. Factor			0.9999424073

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	6	35.9724168
Longitude	94	16	49.6326612
Ellipsoid Height (M):	145.014		
Geoid Height (M):	-30.626		

Location Description

To reach from the intersection of Highway 252 and Highway 71 in Sebastion County, north of Huntington, go north on Highway 71 for 0.3 miles to CR 35 (School House RD), turn left (West) for 1.0 miles to the station on the right, 3.0 feet south of a witness post and 17.5 feet north of the centerline of CR 35. The station mark is a standard 2 1/2" cap stamped "650019A 2011" and set on top of a 4 foot long rebar driven 0.2 feet below ground level.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" RCP culvert	267	41.45	136.0
MK # 2	Left Fence Corner	234	25.60	84.0
MK # 3				

AZ Mark Station	650019
Geodetic Azimuth	86 17 11
Grid Azimuth	87 37 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	SAL5
Ref Mon # 2	OKHV
Ref Mon # 3	A 299, 650015A

Comments

Digital levels were run from A 299 by crew S5102 during job BR6506

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650020	3/12/2012	AHTD	SEBASTIAN	96	040625

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	111,366.2050	
Easting (M)	200,264.6753	
Elevation (M)*	123.802	
Northing (SFT)	365,373.9576	
Easting (SFT)	657,035.0222	
Elevation (SFT)*	406.173	

Convergence Angle	-1	16	41.8767485
Scale Factor	0.999946745		
Elevation Adjust. Factor	0.9999805718		
Combined Adjust. Factor	0.9999273179		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	19	1.4845440
Longitude	94	11	48.3753984
Ellipsoid Height (M):	93.762		
Geoid Height (M):	-30.040		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 96, SOUTHWEST OF LAVACA, GO NORTH ON STATE HIGHWAY 96 0.35 MILES TO THE MARK ON THE RIGHT, 18.8 FEET WEST OF A FENCE AND EAST 16 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650020 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	262	23.16	76.0
MK # 2				
MK # 3				

AZ Mark Station	650020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRS
Ref Mon # 3	OKHV

Comments

VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK T 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650020A	3/12/2012	AHTD	SEBASTIAN	96	040625,C56008

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	111,863.8374	
Easting (M)	200,631.9629	
Elevation (M)*	125.920	
Northing (SFT)	367,006.6065	
Easting (SFT)	658,240.0316	
Elevation (SFT)*	413.124	

Convergence Angle	-1	16	33.6725881
Scale Factor	0.999946380		
Elevation Adjust. Factor	0.9999802394		
Combined Adjust. Factor	0.9999266204		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	19	17.8942656
Longitude	94	11	34.2764592
Ellipsoid Height (M):	95.900		
Geoid Height (M):	-30.021		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 96, SOUTHWEST OF LAVACA, GO NORTH ON STATE HIGHWAY 96 0.7 MILES TO THE MARK ON THE LEFT, WEST 17.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650020A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRS
Ref Mon # 3	OKHV

Comments

VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK T 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650021	3/12/2012	AHTD	SEBASTIAN	96	040625

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	119,544.3672	0.0020
Easting (M)	207,568.4523	0.0020
Elevation (M)*	118.149	
Northing (SFT)	392,205.1447	
Easting (SFT)	680,997.4973	
Elevation (SFT)*	387.627	

Convergence Angle	-1	13	57.7047441	
Scale Factor			0.999941521	
Elevation Adjust. Factor			0.9999814589	
Combined Adjust. Factor			0.9999229810	

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)	
Latitude	35	23	31.9927632	
Longitude	94	7	6.2475672	
Ellipsoid Height:			88.387	
Grid Northing (Meters)			119,544.3649	
Grid Easting (Meters)			207,568.3626	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	35	23	31.9929036	
Longitude	94	7	6.2440176	
Ellipsoid Height (M):			88.435	0.0030
Geoid Height (M):			-29.704	0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252 AND STATE HIGHWAY 96, NORTHEAST OF LAVACA, GO SOUTH ON STATE HIGHWAY 96 0.3 MILES TO THE MARK ON THE RIGHT, WEST 47.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND 2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650021 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	7	22.56	74.0
MK # 2				
MK # 3				

AZ Mark Station	650021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, (ARFY)
Ref Mon # 2	ARLR, (ARRS)
Ref Mon # 3	OKHV, (OKHV)

Comments

NEW STATIC WAS PERFORMED ON THIS POINT IN JAN. & FEB. 2016 AFTER THE DISCOVERY WAS MADE THAT IT HAD BEEN PHYSICALLY RELOCATED AND NEW DIGITAL LEVELS WERE RAN TO IT FROM POINT NUMBER 4.
**********SUPERCEDED ELEV. **********
(387.434') VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, 2012 BY DIGITAL THREE WIRE LEVELS FROM NGS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650021A	3/12/2012	AHTD	SEBASTIAN	252	040625

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	120,130.4617	
Easting (M)	207,660.7585	
Elevation (M)*	123.747	
Northing (SFT)	394,128.0231	
Easting (SFT)	681,300.3385	
Elevation (SFT)*	405.992	

Convergence Angle	-1	13	55.8673333
Scale Factor	0.999941217		
Elevation Adjust. Factor	0.9999805805		
Combined Adjust. Factor	0.9999217986		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	23	51.0714528
Longitude	94	7	3.0864072
Ellipsoid Height (M):	94.060		
Geoid Height (M):	-29.686		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252 AND STATE HIGHWAY 96, NORTHEAST OF LAVACA, GO EAST ON STATE HIGHWAY 252 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 37.8 FEET OF THE CENTERLINE OF THE HIGHWAY AND 95.5 FEET WEST OF A DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650021A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRS
Ref Mon # 3	OKHV

Comments

VERTICAL CONTROL WAS ESTABLISHED BY CREW S5112 ON JULY 31, 2012 BY DIGITAL THREE WIRE LEVELS FROM NGS BENCHMARK U 295 AND J 256. (*NOTE: DIGITAL LEVEL ELEVATION TO THIS MONUMENT WAS USED IN THE FINAL STATIC ADJUSTMENT.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650022	11/13/2012	AHTD	SEBASTIAN	22	BB0407

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	116,311.5654	
Easting (M)	185,264.8569	
Elevation (M)*	163.118	
Northing (SFT)	381,598.8608	
Easting (SFT)	607,823.1180	
Elevation (SFT)*	535.165	

Convergence Angle	-1	22	30.0765933	
Scale Factor	0.999943653			
Elevation Adjust. Factor	0.9999744020			
Combined Adjust. Factor	0.9999180565			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	21	30.6481248	
Longitude	94	21	46.7606304	
Ellipsoid Height (M):	133.085			
Geoid Height (M):	-30.033			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 (ROGERS AVE) AND I 540, EAST OF FORT SMITH, GO EAST ON HIGHWAY 22 0.10 MILES TO THE STATION MARK ON THE RIGHT, WEST 32.5 FEET OF THE CENTERLINE OF A CONC DRIVE, AND 22.6 FEET SOUTH OF THE BACK OF THE CURB FOR HIGHWAY 22. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650022 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL LIGHT POLE	327	8.14	26.7
MK # 2	CONC R/W MKR	266	13.41	44.0
MK # 3	LIGHT POLE	113	21.15	69.4

AZ Mark Station	650022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	ARRS

Comments

ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "R 297" USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650022-1	12/15/2014	AHTD	SEBASTIAN	CR 181	BR6508

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	104,987.4923	0.0030
Easting (M)	180,584.1997	0.0030
Elevation (M)*		

Northing (SFT)	344,446.4643	
Easting (SFT)	592,466.6618	
Elevation (SFT)*		

Convergence Angle	-1	24	11.5406137
Scale Factor	0.999952304		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 12A		
Latitude	35	15	19.6095096
Longitude	94	24	41.1276564
Ellipsoid Height (M):	122.124		0.0070
Geoid Height (M):	-30.542		0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 253 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.0 MILE TO WHITE BLUFF ROAD AND TURN RIGHT (SOUTH) AND GO 0.85 MILES TO MARK ON LEFT, 33.6 FEET EAST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 650022" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	254	63.50	208.3
MK # 2	GUT POLE W/3 GUYS	206	21.90	71.9
MK # 3				

AZ Mark Station	650022A-1
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	SAL5

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650022A	11/13/2012	AHTD	SEBASTIAN	22	BB0407

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	116,599.6806	
Easting (M)	184,809.7242	
Elevation (M)*	153.182	
Northing (SFT)	382,544.1188	
Easting (SFT)	606,329.9035	
Elevation (SFT)*	502.566	

Convergence Angle	-1	22	40.7239787
Scale Factor	0.999943484		
Elevation Adjust. Factor	0.9999759613		
Combined Adjust. Factor	0.9999194466		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	21	39.6398988
Longitude	94	22	5.0582784
Ellipsoid Height (M):	123.152		
Geoid Height (M):	-30.030		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 (ROGERS AVE) AND I 540, EAST OF FORT SMITH, GO WEST ON HIGHWAY 22 0.20 MILES TO THE STATION MARK ON THE RIGHT, EAST 116.3 FEET OF THE CENTERLINE OF SOUTH 58th STREET, AND 12.55 FEET NORTH OF THE BACK OF THE CURB FOR HIGHWAY 22. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650022A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MANHOLE COVER	237	3.72	12.2
MK # 2	COMBINATION POLE W/LIGHT	277	17.50	57.4
MK # 3	SOUTHWEST CORNER OF A BRICK BLDING	248	12.28	40.3

AZ Mark Station	650022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	ARRS

Comments

ELEV. ESTABLISHED IN NOV. 2012 BY S5112 FROM NGS 1ST ORDER BM "R 297" USING DIGITAL LEVELS. **NOTE: ELEV. FROM DIGITAL LEVELS HELD FIXED IN FINAL STATIC ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650022A-1	12/15/2014	AHTD	SEBASTIAN	CR 181	BR6508

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	105,577.2010	0.0030
Easting (M)	180,596.5779	0.0030
Elevation (M)*		

Northing (SFT)	346,381.2003	
Easting (SFT)	592,507.2727	
Elevation (SFT)*		

Convergence Angle	-1	24	11.5881874
Scale Factor	0.999951779		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 12A		
Latitude	35	15	38.7496404
Longitude	94	24	41.2094124
Ellipsoid Height (M):	123.828		0.0070
Geoid Height (M):	-30.525		0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 253 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.0 MILE TO WHITE BLUFF ROAD AND TURN RIGHT (SOUTH) AND GO 0.45 MILES TO MARK ON RIGHT, 36 FEET WEST OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 650022A" ON TOP OF A 3 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/TELEPHONE BOX	72	14.30	46.9
MK # 2	FENCE CORNER	259	2.50	8.2
MK # 3	SERVICE POLE	327	117.00	383.9

AZ Mark Station	650022-1
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	SAL5

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650023	11/13/2012	AHTD	SEBASTIAN	GRAND	BB0407

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)		
Northing (M)	119,252.7108		
Easting (M)	185,114.4689		
Elevation (M)*			
Northing (SFT)	391,248.2687		
Easting (SFT)	607,329.7200		
Elevation (SFT)*			

Convergence Angle	-1	22	35.1704593
Scale Factor	0.999941950		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:			
Geoid Datum:	Geoid 96		
Latitude	35	23	5.9426340
Longitude	94	21	55.5144948
Ellipsoid Height (M):	106.706		
Geoid Height (M):	-29.949		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF GRAND AVE AND I 540, NORTHEAST OF FORT SMITH, GO WEST ON GRAND AVE 0.05 MILES TO THE STATION MARK ON THE LEFT, SOUTH 8.3 FEET OF THE BACK OF THE CURB FOR GRAND AVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650023 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	245	3.54	11.6
MK # 2	LIGHT POLE	95	17.98	59.0
MK # 3	SIGNAL BOX	93	19.20	63.0

AZ Mark Station	650023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	ARRS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650023A	11/13/2012	AHTD	SEBASTIAN	GRAND	BB0407

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	119,251.1771
Easting (M)	185,623.5594
Elevation (M)*	
Northing (SFT)	391,243.2369
Easting (SFT)	608,999.9611
Elevation (SFT)*	
Convergence Angle	-1 22 23.4346972
Scale Factor	0.999941944
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	35 23 6.2892348
Longitude	94 21 35.3464596
Ellipsoid Height (M):	93.470
Geoid Height (M):	-29.943

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF GRAND AVE AND I 540, NORTHEAST OF FORT SMITH, GO EAST ON GRAND AVE 0.25 MILES TO THE STATION MARK ON THE LEFT, NORTH 16.5 FEET OF THE CENTERLINE OF GRAND AVE, 13.2 FEET EAST OF THE EAST END OF A BRIDGE AND 65 FEET WEST OF THE CENTERLINE OF A GRAVEL DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650023A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	23	6.04	19.8
MK # 2				
MK # 3				

AZ Mark Station	650023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	ARRS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650024	11/13/2012	AHTD	SEBASTIAN	LLY RO	BB0407

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	121,782.9910
Easting (M)	185,886.9092
Elevation (M)*	
Northing (SFT)	399,549.6963
Easting (SFT)	609,863.9679
Elevation (SFT)*	
Convergence Angle	-1 22 18.7619122
Scale Factor	0.999940644
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	
Geoid Datum:	Geoid 96
Latitude	35 24 28.6266564
Longitude	94 21 27.3162276
Ellipsoid Height (M):	92.031
Geoid Height (M):	-29.862

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 540 AND KELLY HIGHWAY, NORTHEAST OF FORT SMITH, GO EAST ON KELLY HIGHWAY 0.1 MILES TO A DIRT FIELD ROAD WITH A GATE ON THE LEFT, TURN LEFT HERE AND GO 0.4 MILES TO A CROSS ROAD AND TURN LEFT AND GO 0.5 MILES TO THE MARK ON THE RIGHT, 15.8 FEET EAST OF THE CENTERLINE OF THE ROAD AND 132.3 FEET EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650024 2012" ON TOP OF A 4 FOOT REBAR DRIVEN 0.5 FEET BELOW THE SURFACE OF THE GROUND. THE LAND OWNER IS BILLY WARD 479-650-0921. HE GAVE US PERMISSION ON 11-8-12 AT 1:27pm WHILE ON THE SITE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	36 INCH COTTONWOOD	175	76.05	249.5
MK # 2	36 INCH COTTONWOOD	222	71.41	234.3
MK # 3				

AZ Mark Station	650024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	ARRS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650024A	11/13/2012	AHTD	SEBASTIAN	LLY RO	BB0407

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	122,439.9571
Easting (M)	185,771.3032
Elevation (M)*	
Northing (SFT)	401,705.0926
Easting (SFT)	609,484.6839
Elevation (SFT)*	

Convergence Angle	-1	22	21.7904661
Scale Factor	0.999940334		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:			
Geoid Datum:	Geoid 96		
Latitude	35	24	49.8489408
Longitude	94	21	32.5208304
Ellipsoid Height (M):	92.219		
Geoid Height (M):	-29.842		

Location Description

TO REACH THE STATION MARK FROM I 540 AND KELLY HIGHWAY, NORTHEAST OF FORT SMITH, GO NORTH ON I 540 0.8 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 73.0 FEET OF THE EDGE OF THE CONC. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "650024A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	ARRS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650025	3/2/2017	AHTD	SEBASTIAN	255	040373, 040716

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,432.0300	0.0020
Easting (M)	187,047.9747	0.0020
Elevation (M)*	131.924	
Northing (SFT)	368,870.7518	
Easting (SFT)	613,673.2303	
Elevation (SFT)*	432.821	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	19	26.1764688	
Longitude	94	20	32.4935376	
Ellipsoid Height (M):	101.689			0.0040
Geoid Height (M):	-30.233			0.0040

Convergence Angle	-1	21	46.8606367
Scale Factor	0.999946198		
Elevation Adjust. Factor	0.9999792972		
Combined Adjust. Factor	0.9999254963		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 255 2.55 MILES TO THE MARK ON THE RIGHT, SOUTH 29.6 ' OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650025" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	132	25.18	82.6
MK # 2	SS MAN HOLE	124	20.12	66.0
MK # 3				

AZ Mark Station	650025A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650025A	3/8/2017	AHTD	SEBASTIAN	255	040373, 040716

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,553.3375	0.0020
Easting (M)	186,681.5199	0.0020
Elevation (M)*	129.069	
Northing (SFT)	369,268.7414	
Easting (SFT)	612,470.9532	
Elevation (SFT)*	423.453	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	35	19	29.8286544	
Longitude	94	20	47.1134076	
Ellipsoid Height (M):	98.834			0.0040
Geoid Height (M):	-30.235			0.0040

Convergence Angle	-1	21	55.3679263
Scale Factor	0.999946118		
Elevation Adjust. Factor	0.9999797453		
Combined Adjust. Factor	0.9999258644		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 255 2.3 MILES TO THE MARK ON THE LEFT, NORTH 35.5 ' OF THE CENTERLINE OF THE ROAD AND 18.3' EAST OF THE CENTERLINE OF A DRIVE WAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650025A" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	356	1.89	6.2
MK # 2	COMBINATION POLE W/GUY	103	17.07	56.0
MK # 3	GAS MARKER	300	17.53	57.5

AZ Mark Station	650025
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

ELEV. BY S5111 & S5112 IN FEB. 2017 FOR JOB #040373 USING DIGITAL LEVELS & RUNNING THRU AHTD/NGS 1ST ORDER BM'S R 342, S 342, T 342, KIT CARS & A CARTER & NGS 1ST ORDER BM B 257

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650026	6/14/2017	AHTD	SEBASTIAN	I 540	040713

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	107,689.1585	0.0020
Easting (M)	183,786.7300	0.0020
Elevation (M)*	167.954	

Northing (SFT)	353,310.1808	
Easting (SFT)	602,973.6300	
Elevation (SFT)*	551.030	

Convergence Angle	-1	22	59.3398554
Scale Factor	0.999949907		
Elevation Adjust. Factor	0.9999736432		
Combined Adjust. Factor	0.9999235515		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	35	16	49.7792100
Longitude	94	22	37.0498656
Ellipsoid Height (M):	137.536	0.0000	
Geoid Height (M):	-30.418	0.0000	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 71 FOR 0.35 MILES TO THE MARK ON THE LEFT IN THE MEDIAN OF THE HIGHWAY, 163' SOUTH OF A DROP INLET, 29' FEET EAST OF THE C/L OF THE SOUTH BOUND LANE AND 37.3' WEST OF THE C/L OF THE NORTH BOUND LANE AND WEST 2' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650026" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650026A	6/14/2017	AHTD	SEBASTIAN	I 540	040713

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,113.6546	0.0020
Easting (M)	183,563.6415	0.0020
Elevation (M)*	154.299	

Northing (SFT)	354,702.8818	
Easting (SFT)	602,241.7138	
Elevation (SFT)*	506.231	

Convergence Angle	-1	23	4.7117398
Scale Factor	0.999949562		
Elevation Adjust. Factor	0.9999757860		
Combined Adjust. Factor	0.9999253492		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	35	17	3.3752220
Longitude	94	22	46.2815076
Ellipsoid Height (M):	123.891	0.0000	
Geoid Height (M):	-30.409	0.0000	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 71 FOR 0.5 MILES TO THE MARK ON THE LEFT IN THE MEDIAN OF THE HIGHWAY, 82' SOUTH OF A DROP INLET, 28.5' FEET EAST OF THE C/L OF THE SOUTH BOUND LANE AND 38.5' WEST OF THE C/L OF THE NORTH BOUND LANE AND WEST 1.5' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650026A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650027	6/14/2017	AHTD	SEBASTIAN	45	040713

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,977.0921	0.0020
Easting (M)	183,087.7324	0.0020
Elevation (M)*	151.216	
Northing (SFT)	364,097.3430	
Easting (SFT)	600,680.3354	
Elevation (SFT)*	496.114	

Convergence Angle	-1	23	17.2654687	
Scale Factor	0.999947328			
Elevation Adjust. Factor	0.9999762699			
Combined Adjust. Factor	0.9999235991			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	35	18	35.8925940
Longitude	94	23	7.8552276
Ellipsoid Height (M):	120.884	0.0000	
Geoid Height (M):	-30.332	0.0000	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.85 MILES TO THE MARK ON THE LEFT, 58' NORTH OF A CONC DRIVEWAY AND 26.5' FEET WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650027" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER VALVE	263	3.81	12.5
MK # 2	COMBINATION POLE	323	32.92	108.0
MK # 3				

AZ Mark Station	650027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650027A	6/14/2017	AHTD	SEBASTIAN	AYERS	040713

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,961.8679	0.0020
Easting (M)	182,694.2126	0.0020
Elevation (M)*	149.349	

Northing (SFT)	364,047.3949	
Easting (SFT)	599,389.2625	
Elevation (SFT)*	489.989	

Convergence Angle	-1	23	26.3193829
Scale Factor	0.999947346		
Elevation Adjust. Factor	0.9999765628		
Combined Adjust. Factor	0.9999239101		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	35	18	35.0890920
Longitude	94	23	23.4144780
Ellipsoid Height (M):	119.011	0.0000	
Geoid Height (M):	-30.338	0.0000	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE HIGHWAY 71, SOUTH OF FORT SMITH, GO NORTH ON HIGHWAY 45 FOR 1.85 MILES TO AYERS ROAD AND TURN LEFT (WEST) AND GO 0.2 MILES TO THE MARK ON THE RIGHT, 34' WEST OFTHE C/L OF A CONC DRIVEWAY AND 24.5' FEET NORTH OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650027A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SS MANHOLE	261	10.82	35.5
MK # 2	DROP INLET	321	12.58	41.3
MK # 3				

AZ Mark Station	650027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650028	6/14/2017	AHTD	SEBASTIAN	45	040713, 040889

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,119.1970	0.0020
Easting (M)	182,953.0873	0.0020
Elevation (M)*	152.727	
Northing (SFT)	367,844.3988	
Easting (SFT)	600,238.5873	
Elevation (SFT)*	501.073	

Convergence Angle	-1	23	21.0040570
Scale Factor	0.999946492		
Elevation Adjust. Factor	0.9999760327		
Combined Adjust. Factor	0.9999225260		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	35	19	12.8369460
Longitude	94	23	14.2800324
Ellipsoid Height (M):	122.429	0.0000	
Geoid Height (M):	-30.298	0.0000	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 45 FOR 0.45 MILES TO THE MARK ON THE RIGHT, 26' NORTH OF THE C/L OF A DRIVEWAY, WEST 26,5 FEET OF THE C/L OF THE HIGHWAY AND 7' EAST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650028" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF A GATE	208	7.92	26.0
MK # 2	COMBINATION POLE	359	28.86	94.7
MK # 3				

AZ Mark Station	650028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650028A	6/14/2017	AHTD	SEBASTIAN	45	040713, 040889

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,613.4136	0.0020
Easting (M)	183,004.4386	0.0020
Elevation (M)*	143.953	
Northing (SFT)	369,465.8411	
Easting (SFT)	600,407.0623	
Elevation (SFT)*	472.287	

Convergence Angle	-1	23	20.0973152	
Scale Factor	0.999946138			
Elevation Adjust. Factor	0.9999774095			
Combined Adjust. Factor	0.9999235488			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12B	
Latitude	35 19 28.9098624	
Longitude	94 23 12.7217868	
Ellipsoid Height (M):	113.671	0.0000
Geoid Height (M):	-30.282	0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 255 AND STATE HIGHWAY 45, SOUTH OF FORT SMITH, GO SOUTH ON HIGHWAY 45 FOR 0.15 MILES TO THE MARK ON THE LEFT, 74' SOUTH OF THE BACK OFA CURB AND EAST 45' FEET OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2017 650028A" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MANHOLE	248	3.35	11.0
MK # 2	RIGHT OF WAY MARKER	8	11.88	39.0
MK # 3	MANHOLE	353	13.72	45.0

AZ Mark Station	650028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JUNE 2017 FOR JOB #040713 FROM 1ST ORDER NGS BM'S J 298, L 342 & N 342. ELEV. FROM LEVELS USED AS CONSTRAINT IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650029	11/13/2018	ARDOT	SEBASTIAN	252	040778

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	118,894.3460	0.0020
Easting (M)	209,607.7811	0.0020
Elevation (M)*		
Northing (SFT)	390,072.5335	
Easting (SFT)	687,688.1952	
Elevation (SFT)*		

Convergence Angle	-1	13	10.3706085
Scale Factor	0.999941844		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	35	23	12.3208368
Longitude	94	5	44.8997892
Ellipsoid Height (M):	87.861	0.0030	
Geoid Height (M):	-29.704	0.0030	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-252 AND SR-217S NE OF LAVACA, GO E ON SR-252 0.50 MILES TO THE STATION ON THE LEFT. 17.5' E OF THE C/L OF SR-252, 14.8' S C/L OF GRAVEL DW. 11.3' N OF C/L DIRT DW. THE MARK IS A STANDARD 2½" CAP STAMPED "650029 2018" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CTR OF GATE	118	8.23	27.0
MK # 2	FENCE CORNER	87	7.19	23.6
MK # 3	PPOLE / GUY	37	106.00	347.8

AZ Mark Station	650029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	ARFS, OKHV

Comments

PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's U 295 & X 295 AND CONSTRAINED THEM IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650029A	11/13/2018	ARDOT	SEBASTIAN	252	040778

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	119,333.9356	0.0020
Easting (M)	209,617.0885	0.0020
Elevation (M)*		

Northing (SFT)	391,514.7537	
Easting (SFT)	687,718.7312	
Elevation (SFT)*		

Convergence Angle	-1	13	10.3717774
Scale Factor	0.999941609		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12B	
Latitude	35 23 26.5885440	
Longitude	94 5 44.9017980	
Ellipsoid Height (M):	91.364	0.0030
Geoid Height (M):	-29.690	0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-252 AND SR-217S NE OF LAVACA, GO E ON SR-252 0.20 MILES TO THE STATION ON THE RIGHT. 16.7' W OF THE C/L OF SR-252. THE MARK IS A STANDARD 2½" CAP STAMPED "650029A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	ARFS, OKHV

Comments

PERFORMED SIMULTANEOUS STATIC OBSERVATIONS ON NGS 1ST ORDER BM's U 295 & X 295 AND CONSTRAINED THEM IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650030	12/19/2018	AHTD	SEBASTIAN	45	040792

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	83,237.8410	0.0010
Easting (M)	186,100.0412	0.0010
Elevation (M)*		

Northing (SFT)	273,089.4833	
Easting (SFT)	610,563.2185	
Elevation (SFT)*		

Convergence Angle	-1	21	52.6759793
Scale Factor	0.999977412		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	3	38.3592420
Longitude	94	20	42.4872672
Ellipsoid Height (M):	154.003		0.0050
Geoid Height (M):	-30.946		0.0050

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, SOUTH OF MIDLAND, GO SOUTH ON HIGHWAY 45 1.0 MILE TO THE MARK ON LEFT, SOUTHEAST OF THE C/L OF THE HIGHWAY 24' AND SOUTHWEST OF THE C/L OF A DRIVEWAY 111.0'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650030" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/TRANSFORMER	245	30.48	100.0
MK # 2	5 BARBWIRE FE	130	4.88	16.0
MK # 3				

AZ Mark Station	650030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, OKHV

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650030A	12/19/2018	AHTD	SEBASTIAN	45	040792

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	83,598.4283	0.0010
Easting (M)	186,342.2883	0.0010
Elevation (M)*		

Northing (SFT)	274,272.5102	
Easting (SFT)	611,357.9909	
Elevation (SFT)*		

Convergence Angle	-1	21	47.3113451
Scale Factor	0.999976891		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	3	50.2441704
Longitude	94	20	33.2680848
Ellipsoid Height (M):	155.227	0.0050	
Geoid Height (M):	-30.939	0.0050	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, SOUTH OF MIDLAND, GO SOUTH ON HIGHWAY 45 0.75 MILES TO THE MARK ON RIGHT, NORTHWEST OF THE C/L OF THE HIGHWAY 32'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650030A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SERVICE POLE	46	9.45	31.0
MK # 2	FENCE CORNER	230	1.46	4.8
MK # 3	GAS METER	38	23.19	76.1

AZ Mark Station	650030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, OKHV

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650031	12/19/2018	AHTD	SEBASTIAN	45	040792

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	88,500.5650	0.0010
Easting (M)	184,192.9467	0.0010
Elevation (M)*		

Northing (SFT)	290,355.6037	
Easting (SFT)	604,306.3593	
Elevation (SFT)*		

Convergence Angle	-1	22	39.3653387
Scale Factor	0.999970305		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	35	6	27.6060024
Longitude	94	22	2.7234408
Ellipsoid Height (M):	136.578	0.0050	
Geoid Height (M):	-30.894	0.0050	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, NORTH OF MIDLAND, GO NORTH ON HIGHWAY 45 0.2 MILES TO THE MARK ON LEFT, WEST OF THE C/L OF THE HIGHWAY 28'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650031" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF A GATE	106		
MK # 2		26.76		
MK # 3				

AZ Mark Station	650031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, OKHV

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650031A	12/19/2018	AHTD	SEBASTIAN	45	040792

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	88,967.9224	0.0010
Easting (M)	184,231.1108	0.0010
Elevation (M)*		

Northing (SFT)	291,888.9254	
Easting (SFT)	604,431.5693	
Elevation (SFT)*		

Convergence Angle	-1	22	38.7467941
Scale Factor	0.999969699		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	6	42.7972284	
Longitude	94	22	1.6604652	
Ellipsoid Height (M):	140.228			0.0060
Geoid Height (M):	-30.884			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 45S, NORTH OF MIDLAND, GO NORTH ON HIGHWAY 45 0.5 MILES TO THE MARK ON RIGHT, EAST OF THE C/L OF THE HIGHWAY 22.7'. THE STATION MARK IS A STANDARD 2" CAP STAMPED "2018 650031A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	175	13.41	44.0
MK # 2	POWER POLE W/GUY	209	35.05	115.0
MK # 3				

AZ Mark Station	650031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, OKHV

Comments

GPS DERIVED ELEV. BASED ON CONSTRAINTS ON 1ST ORDER NGS BM Y 298 AND ON ARDOT CORS SITES ARFS, ARFY & ARRV IN FINAL STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650032	1/8/2019	ARDOT	Sebastian	71	040781, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	89,121.9671	0.0010
Easting (M)	193,332.2425	0.0010
Elevation (M)*	179.850	
Northing (SFT)	292,394.3204	
Easting (SFT)	634,290.8656	
Elevation (SFT)*	590.059	

Convergence Angle	-1	19	9.7439213
Scale Factor			0.999969227
Elevation Adjust. Factor			0.9999717764
Combined Adjust. Factor			0.9999410043

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	6	54.7445664
Longitude	94	16	2.4864780
Ellipsoid Height:			149.118
Grid Northing (Meters)			89,121.9729
Grid Easting (Meters)			193,332.2495

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	6	54.7443720	
Longitude	94	16	2.4867480	
Ellipsoid Height (M):			149.129	0.0030
Geoid Height (M):			-30.732	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 71, NORTH OF MANSFIELD, GO NORTH ON HIGHWAY 71 0.4 MILES TO THE MARK ON THE LEFT, WEST 24.1' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2" CAP STAMPED "650032 2019" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GATE	216	6.92	22.7
MK # 2	CABLE MARKER	347	14.63	48.0
MK # 3				

AZ Mark Station	650032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM A 299 BY S5112 IN JANUARY 2019 FOR JOB #040781. ELEV WAS EST BY DIGITAL LEVELS FROM NGS BM A 299 DURING JOB 040882 IN JULY 2025 BY CREW S5113.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650032A	1/8/2019	ARDOT	Sebastian	71	040781, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	89,670.7378	0.0010
Easting (M)	193,357.8485	0.0010
Elevation (M)*	182.105	

Northing (SFT)	294,194.7456	
Easting (SFT)	634,374.8746	
Elevation (SFT)*	597.455	

Convergence Angle	-1	19	9.4459936
Scale Factor			0.999968528
Elevation Adjust. Factor			0.9999714227
Combined Adjust. Factor			0.9999399516

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	7	12.5671980
Longitude	94	16	1.9743240
Ellipsoid Height:			151.387
Grid Northing (Meters)			89,670.7592
Grid Easting (Meters)			193,357.8599

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	7	12.5664960	
Longitude	94	16	1.9747560	
Ellipsoid Height (M):			151.392	0.0030
Geoid Height (M):			-30.719	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 252E AND STATE HIGHWAY 71, NORTH OF MANSFIELD, GO NORTH ON HIGHWAY 71 0.75 MILES TO THE MARK ON THE LEFT, WEST 23.9" OF THE C/L OF THE HIGHWAY AND 22.1' SOUTH OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2" CAP STAMPED "650032A 2019" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER VALVE	323	3.65	12.0
MK # 2	FENCE CORNER	280	4.36	14.3
MK # 3	BENCH MARK A 299	335	12.68	41.6

AZ Mark Station	650032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, OKHV

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM A 299 BY S5112 IN JANUARY 2019 FOR JOB #040781.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650033	8/14/2019	ARDOT	SEBASTIAN	US-71	040762, 040823

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,126.8937	0.0020
Easting (M)	191,347.6245	0.0020
Elevation (M)*	180.415	

Northing (SFT)	325,218.8171	
Easting (SFT)	627,779.6647	
Elevation (SFT)*	591.913	

Convergence Angle	-1	20	0.6897630
Scale Factor			0.999957714
Elevation Adjust. Factor			0.9999716877
Combined Adjust. Factor			0.9999294029

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	12	17.8278192
Longitude	94	17	30.0377328
Ellipsoid Height (M):	149.887		0.0080
Geoid Height (M):	-30.522		0.0080

Location Description

650033 TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND SR-10 W OF GREENWOOD, GO N ON US-71 0.1 MILES TO STATION ON L IN THE MEDIAN. 29' E OF C/L US-71 SB. 56' E OF C/L US-71 NB. THE MARK IS A STANDARD 2½" CAP STAMPED "650033 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY, ARGS
Ref Mon # 3	ARRV, CTA1

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650033A	8/14/2019	ARDOT	SEBASTIAN	US-71	040762

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,573.9691	0.0020
Easting (M)	191,213.4758	0.0020
Elevation (M)*	167.637	

Northing (SFT)	326,685.5970	
Easting (SFT)	627,339.5452	
Elevation (SFT)*	549.989	

Convergence Angle	-1	20	4.0146818
Scale Factor			0.999957257
Elevation Adjust. Factor			0.9999736930
Combined Adjust. Factor			0.9999309511

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	12	32.2301772
Longitude	94	17	35.7516420
Ellipsoid Height (M):	137.118		0.0080
Geoid Height (M):	-30.512		0.0080

Location Description

650033A TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND SR-10 W OF GREENWOOD, GO N ON US-71 0.4 MILES TO STATION ON L IN THE MEDIAN. 29' E OF C/L US-71 SB. 56' E OF C/L US-71 NB. THE MARK IS A STANDARD 2½" CAP STAMPED "650033A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY, ARGS
Ref Mon # 3	ARRV, CTA1

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650034	8/14/2019	ARDOT	SEBASTIAN	'OKER S'	040762

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	98,591.1173	0.0020
Easting (M)	194,224.4650	0.0020
Elevation (M)*	150.724	
Northing (SFT)	323,461.0240	
Easting (SFT)	637,218.0989	
Elevation (SFT)*	494.501	

Convergence Angle	-1	18	54.2397195
Scale Factor	0.999958201		
Elevation Adjust. Factor	0.9999763470		
Combined Adjust. Factor	0.9999345490		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	12	2.6039988
Longitude	94	15	35.8426080
Ellipsoid Height (M):	120.232	0.0080	
Geoid Height (M):	-30.481	0.0080	

Location Description

650034 TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-10S IN GREENWOOD, GO S ON SR-10 AND CONTINUE STRAIGHT S ON COKER ST 0.85 MILES TO STATION ON R. 22' W OF C/L COKER ST. 11.5'N OF C/L FIELD ENTRANCE. THE MARK IS A STANDARD 2½" CAP STAMPED "650034 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CP / GY	185	21.70	71.2
MK # 2	CTR OF GATE	252	10.97	36.0
MK # 3				

AZ Mark Station	650034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY, ARGS
Ref Mon # 3	ARRV, CTA1

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650034A	8/14/2019	ARDOT	SEBASTIAN	'OKER S'	040762

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,112.3458	0.0020
Easting (M)	194,265.8056	0.0020
Elevation (M)*	151.831	

Northing (SFT)	325,171.0878	
Easting (SFT)	637,353.7305	
Elevation (SFT)*	498.132	

Convergence Angle	-1	18	53.5640885
Scale Factor	0.999957659		
Elevation Adjust. Factor	0.9999761733		
Combined Adjust. Factor	0.9999338333		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	12	19.5442380
Longitude	94	15	34.6815288
Ellipsoid Height (M):	121.352	0.0080	
Geoid Height (M):	-30.467	0.0080	

Location Description

650034A TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-10S IN GREENWOOD, GO S ON SR-10 AND CONTINUE STRAIGHT S ON COKER ST 0.5 MILES TO STATION ON L. 19.3' E OF C/L COKER ST. THE MARK IS A STANDARD 2½" CAP STAMPED "650034A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LP / TB	16	4.88	16.0
MK # 2				
MK # 3				

AZ Mark Station	650034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY, ARGS
Ref Mon # 3	ARRV, CTA1

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650035	8/14/2019	ARDOT	SEBASTIAN	SR-10	040762

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,313.2941	0.0030
Easting (M)	195,925.5079	0.0020
Elevation (M)*	159.427	

Northing (SFT)	325,830.3657	
Easting (SFT)	642,798.9372	
Elevation (SFT)*	523.052	

Convergence Angle	-1	18	15.4958772
Scale Factor	0.999957413		
Elevation Adjust. Factor	0.9999749814		
Combined Adjust. Factor	0.9999323955		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid12B	
Latitude	35 12 27.2942172	
Longitude	94 14 29.2608924	
Ellipsoid Height (M):	128.969	0.0090
Geoid Height (M):	-30.429	0.0090

Location Description

650035 TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-96 E OF GREENWOOD, GO E ON SR-10 0.3 MILES TO STATION ON L. 26' N OF C/L SR-10. 60.5'E OF C/L HARMONY DR. THE MARK IS A STANDARD 2½" CAP STAMPED "650035 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGNAL POLE	277	11.28	37.0
MK # 2	CP	320	9.85	32.3
MK # 3	CP/TB/METER LOOP	75	8.84	29.0

AZ Mark Station	650035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY, ARGS
Ref Mon # 3	ARRV, CTA1

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650035A	8/14/2019	ARDOT	SEBASTIAN	SR-10	040762

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,255.2295	0.0030
Easting (M)	196,307.5805	0.0020
Elevation (M)*	157.385	

Northing (SFT)	325,639.8655	
Easting (SFT)	644,052.4537	
Elevation (SFT)*	516.354	

Convergence Angle	-1	18	6.6775483
Scale Factor	0.999957464		
Elevation Adjust. Factor	0.9999753018		
Combined Adjust. Factor	0.9999327668		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	12	25.6924548
Longitude	94	14	14.1064980
Ellipsoid Height (M):	126.946	0.0090	
Geoid Height (M):	-30.422	0.0090	

Location Description

650035A TO REACH THE STATION MARK FROM THE JUNCTION OF SR-10 AND SR-96 E OF GREENWOOD, GO E ON SR-10 0.55 MILES TO STATION ON R. 28.6' S OF C/L SR-10. 46.2'W OF C/L WELLS SCHOOL RD. THE MARK IS A STANDARD 2½" CAP STAMPED "650035A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LP	194	5.67	18.6
MK # 2	LP/2GY	178	21.28	69.8
MK # 3				

AZ Mark Station	650035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY, ARGS
Ref Mon # 3	ARRV, CTA1

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 FROM NGS 1ST ORDER BM U 298 IN AUG. 2019 FOR JOB #040762

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650036	8/28/2019	ARDOT	SEBASTIAN	71B	040723, 040889

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,962.7980	0.0020
Easting (M)	181,595.6556	0.0020
Elevation (M)*	148.236	
Northing (SFT)	370,612.1131	
Easting (SFT)	595,785.0801	
Elevation (SFT)*	486.337	

Convergence Angle	-1	23	52.7426014	
Scale Factor	0.999945916			
Elevation Adjust. Factor	0.9999767375			
Combined Adjust. Factor	0.9999226548			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	19	39.1322820
Longitude	94	24	8.8230672
Ellipsoid Height (M):	117.946	0.0001	
Geoid Height (M):	-30.290	0.0001	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY I 540 AND STATE HIGHWAY 255 (ZERO ST.), IN FORT SMITH, GO NORTH ON HIGHWAY 255 O.4 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF 71B AND 24.3' WEST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650036 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	264	19.72	64.7
MK # 2	GAS MNETER	19.72	28.13	92.3
MK # 3				

AZ Mark Station	650036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650036A	8/28/2019	ARDOT	SEBASTIAN	71B	040723, 040889

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,986.7489	0.0030
Easting (M)	181,153.1742	0.0030
Elevation (M)*	144.908	

Northing (SFT)	370,690.6920	
Easting (SFT)	594,333.3724	
Elevation (SFT)*	475.418	

Convergence Angle	-1	24	2.9482360
Scale Factor			0.999945907
Elevation Adjust. Factor			0.9999772598
Combined Adjust. Factor			0.9999231680

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	19	39.5585940
Longitude	94	24	26.3615616
Ellipsoid Height (M):	114.612		0.0001
Geoid Height (M):	-30.295		0.0001

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY I 540 AND STATE HIGHWAY 255 (ZERO ST.), IN FORT SMITH, GO NORTH ON HIGHWAY 255 O.7 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF 71B 33.1', 47.5' WEST OF THE C/L OF A DRIVEWAY AND 69.5' EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650036A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	240	4.66	15.3
MK # 2	LIGHT POLE	151	12.04	39.5
MK # 3				

AZ Mark Station	650036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650037	8/28/2019	ARDOT	SEBASTIAN	71B	040723

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	115,722.7054	0.0020
Easting (M)	179,364.1106	0.0020
Elevation (M)*	131.841	
Northing (SFT)	379,666.9093	
Easting (SFT)	588,463.7529	
Elevation (SFT)*	432.550	

Convergence Angle	-1	24	45.7116386	
Scale Factor	0.999944111			
Elevation Adjust. Factor	0.9999793102			
Combined Adjust. Factor	0.9999234224			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	21	6.8877360
Longitude	94	25	39.8509356
Ellipsoid Height (M):	101.615	0.0001	
Geoid Height (M):	-30.226	0.0001	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 271 AND STATE HIGHWAY 255/271, IN FORT SMITH, GO NORTH ON HIGHWAY 71B 1.55 MILES TO FRESNO STREET AND TURN LEFT (WEST) AND GO 0.3 MILES T0 THE MARK ON THE LEFT, SOUTH OF THE C/L OF FRESNO STREET AND EAST 45.6' EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650037 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	59	11.55	37.9
MK # 2	END OF FE/GATE	289	2.68	8.8
MK # 3				

AZ Mark Station	650037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650037A	8/28/2019	ARDOT	SEBASTIAN	71B	040723

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	115,704.1419	0.0030
Easting (M)	179,819.9248	0.0020
Elevation (M)*	135.414	

Northing (SFT)	379,606.0056	
Easting (SFT)	589,959.2033	
Elevation (SFT)*	444.272	

Convergence Angle	-1	24	35.1987292
Scale Factor	0.999944116		
Elevation Adjust. Factor	0.9999787495		
Combined Adjust. Factor	0.9999228667		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	21	6.6498156
Longitude	94	25	21.7843860
Ellipsoid Height (M):	105.192		0.0001
Geoid Height (M):	-30.222		0.0001

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 271 AND STATE HIGHWAY 255/271, IN FORT SMITH, GO NORTH ON HIGHWAY 71B 1.55 MILES TO FRESNO STREET AND TURN LEFT (WEST) AND GO 0.05 MILES T0 THE MARK ON THE LEFT, 20.7' SOUTH OF THE C/L OF FRESNO STREET AND EAST 33.4', EAST OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650037A 2019" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RR SIGNAL LIGHT BOX	90	24.08	79.0
MK # 2	LIGHT POLE	91	28.56	93.7
MK # 3	POWER POLE W/GUY	270	22.92	75.2

AZ Mark Station	650037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650038	8/28/2019	ARDOT	SEBASTIAN	71B	040723

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	119,070.4155	0.0030
Easting (M)	180,258.4967	0.0030
Elevation (M)*	137.146	

Northing (SFT)	390,650.1882	
Easting (SFT)	591,398.0846	
Elevation (SFT)*	449.953	

Convergence Angle	-1	24	26.9993554
Scale Factor	0.999942114		
Elevation Adjust. Factor	0.9999784778		
Combined Adjust. Factor	0.9999205930		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	22	56.2011600
Longitude	94	25	7.6936728
Ellipsoid Height (M):	107.042	0.0001	
Geoid Height (M):	-30.104	0.0001	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 71B, IN FORT SMITH, GO EAST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE RIGHT, SOUTH 52.3' OF THE C/L OF THE HIGHWAY, 40' NORTH OF THE C/L OF SOUTH A STREET AND 29.5' WEST OF THE C/L OF 14th STREET. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650038 2019" ON TOP OF A 4' RERBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTR BANKCORPSOUTH SIGN	236	3.96	13.0
MK # 2	CROSSING LIGHT	59	3.29	10.8
MK # 3				

AZ Mark Station	650038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650038A	8/28/2019	ARDOT	SEBASTIAN	71B	040723

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	119,278.0536	0.0030
Easting (M)	179,896.7256	0.0020
Elevation (M)*	131.020	

Northing (SFT)	391,331.4142	
Easting (SFT)	590,211.1739	
Elevation (SFT)*	429.856	

Convergence Angle	-1	24	35.4558285
Scale Factor	0.999942005		
Elevation Adjust. Factor	0.9999794391		
Combined Adjust. Factor	0.9999214453		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	23	2.6483100
Longitude	94	25	22.2262140
Ellipsoid Height (M):	100.918	0.0001	
Geoid Height (M):	-30.102	0.0001	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 22 AND STATE HIGHWAY 71B, IN FORT SMITH, GO WEST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE LEFT, SOUTH 38' OF THE C/L OF THE HIGHWAY, THE MARK IS A STANDARD 2 1/2" CAP STAMPED "650038A 2019" ON TOP OF A 4' RERBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN SEPTEMBER 2019 FROM NGS 1ST ORDER BM's C 298, D 298, E 298 & F 298. CONSTRAINED LEVELED ELEVATIONS TO GPS POINTS IN FINAL STATIC NETWORK ADJUSTMENT. ANY ELEV. DIFFERENCE IS DUE TO ROUNDING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650039	4/8/2020	ARDOT	SEBASTIAN	45	040793

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	98,457.9397	0.0020
Easting (M)	180,226.4621	0.0030
Elevation (M)*		

Northing (SFT)	323,024.0905	
Easting (SFT)	591,292.9844	
Elevation (SFT)*		

Convergence Angle	-1	24	16.0892063
Scale Factor			0.999958691
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	11	47.5044648
Longitude	94	24	48.9444624
Ellipsoid Height (M):	131.973		0.0100
Geoid Height (M):	-30.736		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 10W, IN HACKETT, GO NORTH ON HIGHWAY 45 0.6 MILES TO THE MARK ON THE RIGHT, EAST OF THE C/L OF THE HIGHWAY 37.8' AND 2.6' NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650039" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	GAS MARKER	4	5.09	16.7
MK # 2	COMBINATION POLE	212	13.17	43.2
MK # 3	FENCE CORNER	190	0.80	2.6

AZ Mark Station	650039A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650039A	4/8/2020	ARDOT	SEBASTIAN	45	040793

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	98,778.5951	0.0020
Easting (M)	180,277.4641	0.0030
Elevation (M)*		

Northing (SFT)	324,076.1074	
Easting (SFT)	591,460.3135	
Elevation (SFT)*		

Convergence Angle	-1	24	15.0970873
Scale Factor	0.999958352		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	11	57.9471972
Longitude	94	24	47.2394952
Ellipsoid Height (M):	139.305	0.0100	
Geoid Height (M):	-30.727	0.0100	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 10W, IN HACKETT, GO NORTH ON HIGHWAY 45 0.8 MILES TO THE MARK ON THE LEFT,, WEST OF THE C/L OF THE HIGHWAY 30.4', 5.4' NORTH OF A WITNESS POST AND 57.1' NORTH OF THE C/L OF AN ASPH DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650039A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE T INTERSECTION	264	4.94	16.2
MK # 2	SOUTH END OF A CMP	158	2.13	7.0
MK # 3				

AZ Mark Station	650039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650040	4/8/2020	ARDOT	SEBASTIAN	45	040793

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	105,534.0440	0.0020
Easting (M)	179,278.4642	0.0030
Elevation (M)*		

Northing (SFT)	346,239.6094	
Easting (SFT)	588,182.7613	
Elevation (SFT)*		

Convergence Angle	-1	24	41.8999803
Scale Factor			0.999951846
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	15	36.2990448
Longitude	94	25	33.3005592
Ellipsoid Height (M):	114.681		0.0100
Geoid Height (M):	-30.560		0.0100

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 253, NORTH OF BONANZA, GO SOUTH ON HIGHWAY 45 0.45 MILES TO THE MARK ON THE RIGHT,, SOUTHWEST OF THE C/L OF THE HIGHWAY 19.7', AND 11.4' NORTHEAST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650040" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650040A	4/8/2020	ARDOT	SEBASTIAN	45	040793

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	105,807.0271	0.0030
Easting (M)	179,010.5820	0.0040
Elevation (M)*		

Northing (SFT)	347,135.2214	
Easting (SFT)	587,303.8844	
Elevation (SFT)*		

Convergence Angle	-1	24	48.2202225
Scale Factor			0.999951611
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	15	44.9403660	
Longitude	94	25	44.1619644	
Ellipsoid Height (M):	120.377			0.0110
Geoid Height (M):	-30.556			0.0110

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45N AND STATE MHIGHWAY 253, NORTH OF BONANZA, GO SOUTH ON HIGHWAY 45 0.2 MILES TO THE MARK ON THE RIGHT, WEST OF THE C/L OF THE HIGHWAY 33 AND 32.3' SOUTH OF THE C/L OF A CONCRETE DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650040A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/3 GUYS	177	22.31	73.2
MK # 2	GAS METER	250	16.00	52.5
MK # 3				

AZ Mark Station	650040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650041	4/28/2020	ARDOT	SEBASTIAN	71	040823

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	101,552.0507	0.0030
Easting (M)	189,700.1147	0.0030
Elevation (M)*		

Northing (SFT)	333,175.3530	
Easting (SFT)	622,374.4596	
Elevation (SFT)*		

Convergence Angle	-1	20	39.8909752
Scale Factor	0.999955315		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:		
Elevation Datum:		
Geoid Datum:	Geoid 18	
Latitude	35 13 35.2535628	
Longitude	94 18 37.4054436	
Ellipsoid Height (M):	156.578	0.0050
Geoid Height (M):	-30.496	0.0050

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 10S, WEST OF GREENWOOD, GO NORTH ON HIGHWAY 71 0.35 MILES TO THE MARK ON THE LEFT IN THE MEDIAN, 5.6' NORTH OF THE END OF THE CABLE BARRIER, 6.5' WEST OF THE EDGE OF PAVEMENT OF THE NORTHBOUND LANE AND 9.2' EAST OF THE EDGE OF THE PAVEMENT OF THE SOUTHBOUND LANE. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650041" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650005
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650042	5/18/2020	ARDOT	SEBASTIAN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,897.4041	0.0030
Easting (M)	199,992.7340	0.0030
Elevation (M)*		
Northing (SFT)	363,835.9000	
Easting (SFT)	656,142.8281	
Elevation (SFT)*		

Convergence Angle	-1	16	47.8989038
Scale Factor	0.999947094		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	18	46.0788300
Longitude	94	11	58.7245380
Ellipsoid Height (M):	105.825	0.0060	
Geoid Height (M):	-30.108	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 96 AND STATE HIGHWAY 22, EAST OF CENTERAL CITY, GO EAST ON HIGHWAY 22 239' TO THE MARK ON THE LEFT, NORTH OF THE NORTH EDGE OF THE ASPHALT 12.5'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650042" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER HEADWALL	65	2.53	8.3
MK # 2	FENCE CORNER	19	10.21	33.5
MK # 3	WATER VALVE	98	21.64	71.0

AZ Mark Station	650042A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650042A	5/18/2020	ARDOT	SEBASTIAN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,616.7820	0.0030
Easting (M)	200,373.9431	0.0030
Elevation (M)*		

Northing (SFT)	362,915.2256	
Easting (SFT)	657,393.5117	
Elevation (SFT)*		

Convergence Angle	-1	16	38.9751460
Scale Factor	0.999947297		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	18	37.2510108
Longitude	94	11	43.3889628
Ellipsoid Height (M):	104.039	0.0060	
Geoid Height (M):	-30.109	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 96 AND STATE HIGHWAY 22, EAST OF CENTERAL CITY, GO EAST ON HIGHWAY 22 0.35 MILES TO THE MARK ON THE RIGHT, SOUTH OF THE C/L OF THE HIGHWAY 32' AND EAST OF THE C/L OF A DRIVEWAY 84.6'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650042A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	273	22.74	74.6
MK # 2				
MK # 3				

AZ Mark Station	650042
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650043	5/18/2020	ARDOT	SEBASTIAN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	109,830.5608	0.0030
Easting (M)	202,839.2882	0.0030
Elevation (M)*		

Northing (SFT)	360,335.7649	
Easting (SFT)	665,481.8980	
Elevation (SFT)*		

Convergence Angle	-1	15	41.7983524
Scale Factor			0.999947850
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	Level - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	18	13.5169920	
Longitude	94	10	5.1300192	
Ellipsoid Height (M):	115.904			0.0060
Geoid Height (M):	-30.086			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 255N AND STATE HIGHWAY 22, EAST OF CENTERAL CITY, GO WEST ON HIGHWAY 22 0.3 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 29.3' AND EAST OF THE C/L OF A DRIVEWAY 62.4' AND WEST 58' OF THE C/L OF A DRIVEWAY'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650043" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/LIGHT	129	25.94	85.1
MK # 2				
MK # 3				

AZ Mark Station	650043A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650043A	5/18/2020	ARDOT	SEBASTIAN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	109,642.3445	0.0030
Easting (M)	203,312.2617	0.0030
Elevation (M)*		
Northing (SFT)	359,718.2586	
Easting (SFT)	667,033.6453	
Elevation (SFT)*		

Convergence Angle	-1	15	30.8112096
Scale Factor	0.999947986		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	18	7.7483880
Longitude	94	9	46.2484944
Ellipsoid Height (M):	117.579	0.0060	
Geoid Height (M):	-30.082	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 255N AND STATE HIGHWAY 22, EAST OF CENTERAL CITY, GO WEST ON HIGHWAY 22 72' TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 13' AND AND WEST 72' OF THE C/L OF HIGHWAY 255. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650043A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF A BUILDING	7	1.86	6.1
MK # 2	SERVICE POLE	35	22.10	72.5
MK # 3				

AZ Mark Station	650043
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650044	5/18/2020	ARDOT	SEBASTIAN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,511.8130	0.0030
Easting (M)	206,397.1118	0.0030
Elevation (M)*		

Northing (SFT)	356,009.1732	
Easting (SFT)	677,154.5243	
Elevation (SFT)*		

Convergence Angle	-1	14	19.2093756
Scale Factor	0.999948818		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	17	33.2527992
Longitude	94	7	43.1999616
Ellipsoid Height (M):	97.271	0.0060	
Geoid Height (M):	-30.061	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTERAL CITY, GO WEST ON HIGHWAY 22 1.8 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 30.1' AND AND EAST 24.8' OF THE C/L OF MORRIS CEMETERY ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650044" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	352	16.76	55.0
MK # 2	FENCE CORNER	328	20.94	68.7
MK # 3				

AZ Mark Station	650044A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650044A	5/18/2020	ARDOT	SEBASTIAN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,396.2306	0.0030
Easting (M)	206,858.2912	0.0030
Elevation (M)*		

Northing (SFT)	355,629.9666	
Easting (SFT)	678,667.5770	
Elevation (SFT)*		

Convergence Angle	-1	14	8.5330291
Scale Factor	0.999948903		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	17	29.8261536
Longitude	94	7	24.8525436
Ellipsoid Height (M):	107.819	0.0060	
Geoid Height (M):	-30.056	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTERAL CITY, GO WEST ON HIGHWAY 22 1.5 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 32'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650044A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	230	10.76	35.3
MK # 2				
MK # 3				

AZ Mark Station	650044
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650045	5/18/2020	ARDOT	SEBASTIAN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,339.7555	0.0030
Easting (M)	209,488.7956	0.0030
Elevation (M)*		
Northing (SFT)	355,444.6812	
Easting (SFT)	687,297.8236	
Elevation (SFT)*		

Convergence Angle	-1	13	7.9367202
Scale Factor	0.999948903		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	17	29.8222440
Longitude	94	5	40.7171256
Ellipsoid Height (M):	138.398	0.0060	
Geoid Height (M):	-30.014	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTERAL CITY, GO EAST ON HIGHWAY 22 0.15 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 35.5 AND NORTH 24.2' OF THE BROTHERTON BROTHERS FUNERAL HOME SIGN AND 73.6' EAST OF THE C/LOF AN ASPHALT DRIVEWAY'. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650045" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/LIGHT	84	29.11	95.5
MK # 2				
MK # 3				

AZ Mark Station	650045A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650045A	5/18/2020	ARDOT	SEBASTIAN	22	040874

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,524.1461	0.0030
Easting (M)	209,925.3824	0.0030
Elevation (M)*		
Northing (SFT)	356,049.6360	
Easting (SFT)	688,730.1921	
Elevation (SFT)*		

Convergence Angle	-1	12	57.9742144
Scale Factor	0.999948748		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	17	36.1053672	
Longitude	94	5	23.5964508	
Ellipsoid Height (M):	139.882			0.0060
Geoid Height (M):	-30.002			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HGIHWAY 252W AND STATE HIGHWAY 22, EAST OF CENTERAL CITY, GO EAST ON HIGHWAY 22 0.45 MILES TO THE MARK ON THE LEFT, NORTH OF THE C/L OF THE HIGHWAY 7 AND WEST OF THE C/L OF A DRIVEWAY 50.5' AND EAST OF THE C/L OF A DRIVEWAY 87.0". THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 650044A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	43	22.04	72.3
MK # 2	GAS METER	278	24.57	80.6
MK # 3				

AZ Mark Station	650045
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650049	1/5/2021	AHTD	Sebastian	96	04X104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	82,606.5014	0.0030
Easting (M)	193,438.8308	0.0030
Elevation (M)*		
Northing (SFT)	271,018.1633	
Easting (SFT)	634,640.5640	
Elevation (SFT)*		

Convergence Angle	-1	19	3.8518386
Scale Factor	0.999978070		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	3	23.4517644
Longitude	94	15	52.3611396
Ellipsoid Height (M):	158.139	0.0120	
Geoid Height (M):	-30.838	0.0120	

Location Description

FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 96 IN MANSFIELD, AR, GO WEST ON STATE HWY. 96 FOR 0.9 MILES TO THE STATION ON THE LEFT. THE STATION IS 24.6' SOUTH OF THE CL OF STATE HWY. 96, 12' NORTH OF A 6 BARB WIRE FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FOC MARKER	68	24.75	81.2
MK # 2	GAS METER	358	17.98	59.0
MK # 3				

AZ Mark Station	650049A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS, ARFY
Ref Mon # 3	ARRV, OKMC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650049A	1/5/2021	AHTD	Sebastian	96	04X104

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	82,759.9284	0.0030
Easting (M)	193,805.2237	0.0030
Elevation (M)*		

Northing (SFT)	271,521.5318	
Easting (SFT)	635,842.6381	
Elevation (SFT)*		

Convergence Angle	-1	18	55.5211563
Scale Factor	0.999977838		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	3	28.7023716
Longitude	94	15	38.0447712
Ellipsoid Height (M):	154.116	0.0120	
Geoid Height (M):	-30.829	0.0120	

Location Description

FROM THE INTERSECTION OF US HWY. 71 AND STATE HWY. 96 IN MANSFIELD, AR, GO WEST ON STATE HWY. 96 FOR 0.65 MILES TO THE STATION ON THE LEFT. THE STATION IS 30' SOUTH OF THE CL OF STATE HWY. 96, 15' NORTH OF A 6 BARB WIRE FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE	229	10.12	33.2
MK # 2	COMBINATION POLE	307	21.98	72.1
MK # 3				

AZ Mark Station	650049
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS, ARFY
Ref Mon # 3	ARRV, OKMC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650050	11/22/2021	ARDOT	Sebastian	22	040888

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	116,929.1546	0.0010
Easting (M)	184,225.0633	0.0010
Elevation (M)*		

Northing (SFT)	383,625.0681	
Easting (SFT)	604,411.7285	
Elevation (SFT)*		

Convergence Angle	-1	22	54.3799290
Scale Factor	0.999943293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	21	49.8712608
Longitude	94	22	28.5261780
Ellipsoid Height (M):	119.272		0.0030
Geoid Height (M):	-30.148		0.0030

Location Description

To reach from the junction of Hwy. 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 2.4 miles to the station on the right. The station is 36.6 ft. west of Euper Ln, 19.0 Ft. north of edge of Hwy 22, 14.5 ft. Northeast of a powerpole. The station Mark is a 2 1/2 inl cap stamped "650050 2021" set ontop of a 5/8 in by 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Firehydrant	256	6.00	19.7
MK # 2	Water Valve	9	14.84	48.7
MK # 3	First National Bank Sign	113	27.28	89.5

AZ Mark Station	650050A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650050A	11/22/2021	ARDOT	Sebastian	22	040888

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	117,272.7211	0.0010
Easting (M)	183,878.7457	0.0010
Elevation (M)*		
Northing (SFT)	384,752.2525	
Easting (SFT)	603,275.5182	
Elevation (SFT)*		

Convergence Angle	-1	23	2.5519672
Scale Factor	0.999943093		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	22	0.7454244
Longitude	94	22	42.5699148
Ellipsoid Height (M):	117.652	0.0030	
Geoid Height (M):	-30.141	0.0030	

Location Description

To reach from the junction of Hwy. 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 2.7 miles to the station on the Left. The station is 34.5 ft. South of the center of Hwy 22, 41.6 ft. north of center of south P st, 70.7 ft. Northeast of STS manhole. The station Mark is a 2 1/2 in cap stamped "650050A 2021" set ontop of a 5/8 in. by 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Powerpole	321	10.15	33.3
MK # 2	Chuck Fawcett Sign	253	6.10	20.0
MK # 3	Northwest corner of building	185	24.60	80.7

AZ Mark Station	650050
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650051	11/22/2021	ARDOT	Sebastian	22	040888

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	114,970.3720	0.0010
Easting (M)	186,856.4494	0.0010
Elevation (M)*		

Northing (SFT)	377,198.6288	
Easting (SFT)	613,044.8677	
Elevation (SFT)*		

Convergence Angle	-1	21	52.6648913
Scale Factor	0.999944477		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 18	
Latitude	35 20 48.3738504	
Longitude	94 20 42.4682124	
Ellipsoid Height (M):	99.441	0.0020
Geoid Height (M):	-30.179	0.0020

Location Description

To reach from the junction of Hwy 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 0.5 miles to S. 79th St. Go South/Left on S 79th St for 0.2 miles the sthe station on the left. The station is 38.8 ft. East of center of S 79th St, 16.0 ft. North of Mercy Clinic sign, and 9.9 ft. West of the back of curb. The station mark is a 2 1/2 in. cap stamped "650051 2021" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Powerpole	345	14.63	48.0
MK # 2	Powerpole	235	8.41	27.6
MK # 3	Lightpole	112	17.31	56.8

AZ Mark Station	650051A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650051A	11/22/2021	ARDOT	Sebastian	22	040888

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	115,495.3582	0.0010
Easting (M)	186,871.9304	0.0010
Elevation (M)*		
Northing (SFT)	378,921.0210	
Easting (SFT)	613,095.6583	
Elevation (SFT)*		

Convergence Angle	-1	21	52.5963461
Scale Factor	0.999944140		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	21	5.4166464	
Longitude	94	20	42.3504168	
Ellipsoid Height (M):	102.550			0.0020
Geoid Height (M):	-30.164			0.0020

Location Description

To reach from the junction of Hwy 22 and Hwy 255 in Fort Smith. Go West on Hwy 22 for 0.5 miles to S. 79th St. Go North/Right on S 79th St for 0.1 miles the sthe station on the Right. The station is 25.0 ft. East of center of S 79th St, 14.0 ft. Southwest of a firehydrant, and 47.7 ft. Northwest of a storm sewer manhole. The station mark is a 2 1/2 in. cap stamped "650051A 2021" set ontop of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Firehydrant	15	4.27	14.0
MK # 2	Lightpole	200	25.51	83.7
MK # 3	Lightpole	99	30.79	101.0

AZ Mark Station	650051
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650052	2/5/2024	ARDOT	Sebastian	10	04651, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	98,119.1419	0.0010
Easting (M)	185,336.1055	0.0010
Elevation (M)*		
Northing (SFT)	321,912.5514	
Easting (SFT)	608,056.8728	
Elevation (SFT)*		

Convergence Angle	-1	22	18.3961097
Scale Factor			0.999958919
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	11	40.5303720
Longitude	94	21	26.6875920
Ellipsoid Height (M):	142.611		0.0040
Geoid Height (M):	-30.659		

Location Description

To reach from the intersection of Highway 71 and Highway 10 in Greenwood. Go West on Highway 10 for 3.85 miles to the station on the Left/South. The station is 26.2 ft. South of the centerline of Highway 10, 20.0 ft. East of a gravel field entrance, and 10ft. North of a witness post. The station mark is a 2 1/2 in. aluminium cap stamped "650052 2024" and set on top of a 5/8 in. by 4ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (2011)		
Latitude	35	11	40.5303864
Longitude	94	21	26.6876100
Ellipsoid Height:	142.591		
Grid Northing (Meters)	98,119.1424		
Grid Easting (Meters)	185,336.1051		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	12" Steel Culvert	277	4.20	13.8
MK # 2	Steel Fence Post	171	3.30	10.8
MK # 3	Combination Pole	84	23.60	77.4

AZ Mark Station	650052A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650052A	2/5/2024	ARDOT	Sebastian	10	04651, 040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	97,682.7457	0.0010
Easting (M)	185,463.8760	0.0010
Elevation (M)*		

Northing (SFT)	320,480.8082	
Easting (SFT)	608,476.0665	
Elevation (SFT)*		

Convergence Angle	-1	22	15.2176766
Scale Factor			0.999959381
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	35	11	26.4725304
Longitude	94	21	21.2256036
Ellipsoid Height:			133.138
Grid Northing (Meters)			97,682.7451
Grid Easting (Meters)			185,463.8714

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	11	26.4725520	
Longitude	94	21	21.2254200	
Ellipsoid Height (M):			133.156	0.0040
Geoid Height (M):			-30.669	

Location Description

To reach from the intersection of Highway 71 and Highway 10 in Greenwood. Go West on Highway 10 for 3.80 miles to Reeves Rd. on the Left/South. Go South on Reeves Rd. for 0.3 miles to the station on the Right/West. The station is 17.8 ft. West of the centerline of Reeves Rd., 4ft. East of a 5 strand barbwire fence, and 4ft. East of a witness post. The station mark is a 2 1/2in. aluminium cap stamped "650052A 2024" and set on top of a 5/8in. by 4ft. rebar driven 0.10in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" 5' Tall stump	180	4.90	16.1
MK # 2				
MK # 3				

AZ Mark Station	650052
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFS
Ref Mon # 3	ARFY, ARRV

Comments

DIGITAL LEVELED ELEV. FROM 650052A STATIC DERIVED ELEV. IS 537.4235 US FEET (STATIC DERIVED ELEV. IS 537.4218 US FEET)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650053	6/23/2025	AHTD	Sebastian	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	84,406.9937	0.0010
Easting (M)	194,046.1851	0.0010
Elevation (M)*		

Northing (SFT)	276,925.2785	
Easting (SFT)	636,633.1923	
Elevation (SFT)*		

Convergence Angle	-1	18	50.8565579
Scale Factor			0.999975502
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	4	22.3153320
Longitude	94	15	30.0286080
Ellipsoid Height (M):	146.395		0.0030
Geoid Height (M):	-30.805		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 252, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 0.7 MILES TO THE STATION ON THE LEFT (EAST) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650053, 2025 ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 23FT EAST OF THE CENTERLINE OF HIGHWAY 71 AND 24FT WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	296	11.50	37.7
MK # 2				
MK # 3				

AZ Mark Station	650053A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650053A	6/23/2025	AHTD	Sebastian	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	84,903.5111	0.0010
Easting (M)	193,900.8114	0.0010
Elevation (M)*		

Northing (SFT)	278,554.2693	
Easting (SFT)	636,156.2454	
Elevation (SFT)*		

Convergence Angle	-1	18	54.4564303
Scale Factor	0.999974818		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	4	38.3149560
Longitude	94	15	36.2150280
Ellipsoid Height (M):	151.941		0.0030
Geoid Height (M):	-30.800		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 252, TRAVEL SOUTH ALONG HIGHWAY 71 FOR 0.4 MILES TO THE STATION ON THE LEFT (NORTHEAST) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650053A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 50FT NORTHEAST OF THE CENTERLINE OF HIGHWAY 71 AND 16FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18IN CEDAR	140	15.50	50.9
MK # 2				
MK # 3				

AZ Mark Station	650053
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM GPS MON 650053

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650054	6/23/2025	AHTD	Sebastian	252	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	88,534.2296	0.0010
Easting (M)	194,638.3917	0.0010
Elevation (M)*		

Northing (SFT)	290,466.0516	
Easting (SFT)	638,576.1234	
Elevation (SFT)*		

Convergence Angle	-1	18	39.4268347
Scale Factor	0.999969944		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	6	36.6500160
Longitude	94	15	10.3865040
Ellipsoid Height (M):	159.861	0.0030	
Geoid Height (M):	-30.720		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 252 AND HIGHWAY 71, TRAVEL EAST ALONG HIGHWAY 252 FOR 1.1 MILE TO THE STATION ON THE RIGHT (SOUTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650054, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 23FT SOUTH OF THE CENTERLINE OF HIGHWAY 252 AND 17FT NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	282	23.00	75.5
MK # 2				
MK # 3				

AZ Mark Station	650054A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650054A	6/23/2025	AHTD	Sebastian	252	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	88,526.6303	0.0010
Easting (M)	194,992.1036	0.0010
Elevation (M)*		

Northing (SFT)	290,441.1196	
Easting (SFT)	639,736.5932	
Elevation (SFT)*		

Convergence Angle	-1	18	31.2970033
Scale Factor	0.999969943		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	6	36.6658560
Longitude	94	14	56.4153000
Ellipsoid Height (M):	161.312		0.0030
Geoid Height (M):	-30.713		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 252 AND HIGHWAY 71, TRAVEL EAST ALONG HIGHWAY 252 FOR 0.9 MILES TO THE STATION ON THE RIGHT (SOUTH) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650054A, 2025 SET JUSTBELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 23FT SOUTH OF THE CENTERLINE OF HIGHWAY 252 AND 15FT NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	287	21.00	68.9
MK # 2				
MK # 3				

AZ Mark Station	650054
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM GPS MON 650054

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650055	10/7/2025	AHTD	Sebastian	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	94,606.4929	0.0010
Easting (M)	192,594.2813	0.0010
Elevation (M)*		

Northing (SFT)	310,388.1355	
Easting (SFT)	631,869.7379	
Elevation (SFT)*		

Convergence Angle	-1	19	29.6122758
Scale Factor	0.999962605		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	9	52.1182080
Longitude	94	16	36.6307320
Ellipsoid Height (M):	165.494		0.0050
Geoid Height (M):	-30.609		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 252, TRAVEL NORTH ALONG HIGHWAY 71 FOR 3.8 MILES TO THE STATION ON THE EAST (RIGHT) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650055, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 21FT EAST OF THE EDGE OF THE PAVEMENT OF HIGHWAY 71 AND 53FT SOUTH OF THE CENTER OF S COKER RD.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650055A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM NGS BM X 298

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650055A	10/7/2025	AHTD	Sebastian	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	94,291.7041	0.0010
Easting (M)	192,707.1904	0.0010
Elevation (M)*		

Northing (SFT)	309,355.3659	
Easting (SFT)	632,240.1738	
Elevation (SFT)*		

Convergence Angle	-1	19	26.8494164
Scale Factor	0.999962964		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	9	41.9906880
Longitude	94	16	31.8827280
Ellipsoid Height (M):	162.933	0.0050	
Geoid Height (M):	-30.614		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 252, TRAVEL NORTH ALONG HIGHWAY 71 FOR 4 MILES TO THE STATION IN THE MEDIAN BETWEEN THE NORTH AND SOUTH BOUND LANES. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650055A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 11FT WEST OF THE EDGE OF THE PAVEMENT OF THE NORTH BOUND LANE AND 20FT EAST OF THE CENTER OF THE DITCH.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650055
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM NGS BM X 298

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650056	10/7/2025	AHTD	Sebastian	253	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	95,890.9720	0.0010
Easting (M)	187,791.3923	0.0010
Elevation (M)*		

Northing (SFT)	314,602.2973	
Easting (SFT)	616,112.2596	
Elevation (SFT)*		

Convergence Angle	-1	21	20.7201395
Scale Factor	0.999961281		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:		
Elevation Datum:		
Geoid Datum:	GEOID18	
Latitude	35 10 30.1427400	
Longitude	94 19 47.5708080	
Ellipsoid Height (M):	156.083	0.0030
Geoid Height (M):	-30.671	

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 253 AND HIGHWAY 10, TRAVEL SOUTH ALONG HIGHWAY 253 FRO 2.1 MILES TO THE STATION ON THE WEST (RIGHT) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650056, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 6.5FT WEST OF THE EDGE OF THE PAVEMENT OF HIGHWAY 253 47FT NORTH OF THE CENTER OF A DRIVEWAY AND 13FT EAST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16" ELM TREE	95	20.00	65.6
MK # 2				
MK # 3				

AZ Mark Station	650056A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM GPS MON 650056A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650056A	10/7/2025	AHTD	Sebastian	253	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	95,408.2987	0.0010
Easting (M)	187,610.7632	0.0010
Elevation (M)*		

Northing (SFT)	313,018.7267	
Easting (SFT)	615,519.6456	
Elevation (SFT)*		

Convergence Angle	-1	21	24.6101469
Scale Factor	0.999961827		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	10	14.3455800
Longitude	94	19	54.2558280
Ellipsoid Height (M):	149.758		0.0030
Geoid Height (M):	-30.687		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 253 AND HIGHWAY 10 TRAVEL SOUTH ALONG HIGHWAY 253 FOR 2.3 MILES TO THE STATION ON THE EAST (LEFT)SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650056A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 4FT EAST OF THE EDGE OFTHE PAVEMENT OF HIGHWAY 253, 11FT NORTH OF A FARM DRIVEWAY, AND 20FT WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SQUARE WOODEN FENCE CORNER	249	6.50	21.3
MK # 2				
MK # 3				

AZ Mark Station	650056
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650057	10/7/2025	AHTD	Sebastian	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	103,359.2491	0.0010
Easting (M)	187,498.2466	0.0010
Elevation (M)*		

Northing (SFT)	339,104.4698	
Easting (SFT)	615,150.4974	
Elevation (SFT)*		

Convergence Angle	-1	21	31.5325353
Scale Factor			0.999953641
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	14	32.1955440
Longitude	94	20	6.1520280
Ellipsoid Height (M):	118.909		0.0030
Geoid Height (M):	-30.493		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 549 TRAVEL SOUTH ALONG HIGHWAY 71 FOR 1.1 MILES TO THE STATION ON THE EAST (LEFT) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650057, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 16FT NORTHEAST OF THE EDGE OF THE PAVEMENT OF HIGHWAY 71, 62FT NORTHWEST OF THE CENTER OF THE DRIVEWAY TO JACK'S BUILDING SUPPLY, AND 34FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	195	25.50	83.7
MK # 2				
MK # 3				

AZ Mark Station	650057A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY STATIC OBS DURING JOB 040882

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650057A	10/7/2025	AHTD	Sebastian	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	103,573.9968	0.0010
Easting (M)	187,319.8514	0.0010
Elevation (M)*		

Northing (SFT)	339,809.0212	
Easting (SFT)	614,565.2125	
Elevation (SFT)*		

Convergence Angle	-1	21	35.7547418
Scale Factor	0.999953445		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	14	39.0248160
Longitude	94	20	13.4079360
Ellipsoid Height (M):	116.240		0.0030
Geoid Height (M):	-30.491		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 71 AND HIGHWAY 549 TRAVEL SOUTH ALONG HIGHWAY 71 FOR 0.9 MILES TO THE STATION ON THE EAST (LEFT) SIDE OF THE HIGHWAY. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650057A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 17FT NORTHEAST OF THE EDGE OF THE PAVEMENT OF HIGHWAY 71, 66FT SOUTHEAST OF THE CENTER OF OLD JENNY LIND LOOP, AND 36FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	293	25.50	83.7
MK # 2	WEST CORNER OF A SMALL BLOCK NUILDI NG	240	19.00	62.3
MK # 3				

AZ Mark Station	650057
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV EST BY DIGITAL LEVELS FROM GPS MON 650057

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650058	10/7/2025	AHTD	Sebastian	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	104,686.4200	0.0010
Easting (M)	186,002.1824	0.0010
Elevation (M)*		

Northing (SFT)	343,458.6963	
Easting (SFT)	610,242.1601	
Elevation (SFT)*		

Convergence Angle	-1	22	6.6866211
Scale Factor	0.999952457		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	15	14.0947200
Longitude	94	21	6.5647080
Ellipsoid Height (M):	118.785		0.0040
Geoid Height (M):	-30.483		

Location Description

THE STATION IS ON THE EDGE OF HIGHWAY 71 BETWEEN THE TWO NORTH BOUND ON RAMPS FOR I-49. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650058, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 15FT NORTHEAST OF THE EDGE OF THE PAVEMENT OF HIGHWAY 71, 43FT SOUTHEAST OF THE CENTER OF AN ABANDONNED DRIVEWAY, AND 62FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	170	28.00	91.9
MK # 2				
MK # 3				

AZ Mark Station	650058A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650058A	10/7/2025	AHTD	Sebastian	71	040882

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	104,856.5126	0.0010
Easting (M)	185,801.8050	0.0010
Elevation (M)*		

Northing (SFT)	344,016.7418	
Easting (SFT)	609,584.7552	
Elevation (SFT)*		

Convergence Angle	-1	22	11.3915828
Scale Factor	0.999952308		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	35	15	19.4572800
Longitude	94	21	14.6502360
Ellipsoid Height (M):	120.208	0.0040	
Geoid Height (M):	-30.481		

Location Description

THE STATION IS ON THE EAST SIDE OF HIGHWAY 71 IN BETWEEN THE ON AND OFF RAMPS AT THE START OF I-49. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 650058A, 2025 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 15FT NORTHEAST OF THE EDGE OF THE PAVEMENT OF HIGHWAY 71, 31FT SOUTH OF THE NORTHEAST END OF A CONCRETE CULVERT, AND 73FT SOUTHWEST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650058
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660001	4/23/1990	AHTD	SEVIER	71	30108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	531,879.7515
Easting (M)	201,561.3541
Elevation (M)*	
Northing (SFT)	1,745,008.8180
Easting (SFT)	661,289.2092
Elevation (SFT)*	
Convergence Angle	-1 12 0.2997803
Scale Factor	0.999924375
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 50 13.1147592
Longitude	94 8 39.0846336
Ellipsoid Height (M):	63.658
Geoid Height (M):	-27.214

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO SOUTH ON U S HIGHWAY 71 FOR .644 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.75 METERS SOUTH FO THE SOUTHEAST END OF THE BRIDGE OVER WILSON CREEK, 8.40 METERS EAST OF THE CENTER OF U S HIGHWAY 71, 1.5 METERS EAST OF GUARDRAIL, AND 1 METER EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "90660001. THE SHOT DISTANCE IS 682.468 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	DRILL POINT IN SE CORNER BRIDGE END	353	9.03	29.6
MK # 2	DRILL POINT IN CENCRETE CURBING	277	15.45	50.7
MK # 3	PUNCH POINT IN TOP OF GUARDRAIL POST	185	14.26	46.8

AZ Mark Station	90660002
Geodetic Azimuth	182 34 07.02925
Grid Azimuth	183 46 07.33074

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

CAP IS STAMPED 90660001

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660002	4/23/1990	AHTD	SEVIER	71	30108, 030242, R30012

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	531,198.8138
Easting (M)	201,516.4998
Elevation (M)*	
Northing (SFT)	1,742,774.7749
Easting (SFT)	661,142.0498
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	49	50.9869308
Longitude	94	8	40.2741132
Ellipsoid Height (M):	62.068		
Geoid Height (M):	-27.204		

Convergence Angle	-1	12	0.9655209
Scale Factor	0.999924748		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO SOUTH ON U S HIGHWAY 71 FOR 1.32 KM (0.82 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.63 METERS SOUTH OF THE NORTH END OF A GUARDRAIL, 8.23 METERS WEST OF THE CENTER OF U S HIGHWAY 71, 1.5 METERS WEST OF GUARDRAIL, AND 1.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 MM CAP STAMPED "90660002". THE SHOT DISTANCE IS 682.468 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN TOP OF GUARDRAIL POST	0	8.43	27.7
MK # 2	PUNCH POINT IN TOP OF GUARDRAIL POST	110	2.03	6.7
MK # 3	PUNCH POINT IN TOP OF GUARDRAIL POST	169	10.88	35.7

AZ Mark Station	90660001
Geodetic Azimuth	2 34 06.366960
Grid Azimuth	3 46 07.330743

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

CAP IS STAMPED 90660002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660003	4/23/1990	AHTD	SEVIER	27	R30012

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	532,102.9801	
Easting (M)	202,721.5580	
Elevation (M)*		
Northing (SFT)	1,745,741.1939	
Easting (SFT)	665,095.6449	
Elevation (SFT)*		

Convergence Angle	-1	11	35.1489539
Scale Factor	0.999924242		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	50	21.1452504
Longitude	94	7	54.1476228
Ellipsoid Height (M):			
Geoid Height (M):	-27.833		

Location Description

THE STATION IS IN A FIELD SOUTH OF HWY. 27 BY FOUR CHICKEN HOUSES, 231 FEET SOUTHEAST OF THE SOUTHEAST OF 4TH CHICKEN HOUSE, 5 FEET FROM A FENCE LINE AND 23 FEET SOUTH OF A GATE IN THE FENCE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN RAILROAD TIE FENCE POST	23	12.44	40.8
MK # 2	NBC IN RAILROAD TIE FENCE POST	34	5.54	18.2
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90660004
Geodetic Azimuth	22 18 11
Grid Azimuth	23 29 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ASHDOWN NW BASE
Ref Mon # 2	PATE
Ref Mon # 3	FALLS

Comments

Old point number 90660003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660004	4/23/1990	AHTD	SEVIER	27	R30012

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	532,224.6391	
Easting (M)	202,774.4470	
Elevation (M)*		
Northing (SFT)	1,746,140.3368	
Easting (SFT)	665,269.1649	
Elevation (SFT)*		

Convergence Angle	-1	11	34.0529201
Scale Factor	0.999924177		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	50	25.1289960
Longitude	94	7	52.1893380
Ellipsoid Height (M):			
Geoid Height (M):	-27.835		

Location Description

THE STATION IS IN A FIELD SOUTH OF HWY. 27 NEAR SOME CHICKEN HOUSES, 3 FEET WEST OF A FENCE LINE, 129 FEET EAST OF THE NORTHEAST CORNER OF THE 3RD CHICKEN HOUSE AND 132 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF THE 2ND CHICKEN HOUSE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90660003
Geodetic Azimuth	202 18 12
Grid Azimuth	203 29 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ASHDOWN NW BASE
Ref Mon # 2	PATE
Ref Mon # 3	FALLS

Comments

Old point number 90660004

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660005	4/23/1990	AHTD	SEVIER	27	R30012

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	533,184.5621	
Easting (M)	205,403.9140	
Elevation (M)*		
Northing (SFT)	1,749,289.6842	
Easting (SFT)	673,896.0078	
Elevation (SFT)*		

Convergence Angle	-1	10	37.2488800
Scale Factor			0.999923652
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	50	58.0448292
Longitude	94	6	10.6974936
Ellipsoid Height (M):			
Geoid Height (M):	-27.834		

Location Description

THE STATION IS NORTHEAST OF BEN LOMOND, 45 FEET NORTH OF THE CENTERLINE OF HWY. 27, 29.5 FEET WEST OF A GATE IN A FENCE AND 6 FEET SOUTH OF A FENCE ON TOP OF A HIGH BACKSLOPE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN GATE POST	77	8.96	29.4
MK # 2	NBC IN GATE BRACE POST	82	16.36	53.7
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90660006
Geodetic Azimuth	97 18 39
Grid Azimuth	98 29 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	ASHDOWN NW BASE
Ref Mon # 2	PATE
Ref Mon # 3	FALLS

Comments

Old point number 90660005

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660006	4/23/1990	AHTD	SEVIER	27	R30012

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1986)	
Northing (M)	533,137.0191	
Easting (M)	205,722.4890	
Elevation (M)*		
Northing (SFT)	1,749,133.7035	
Easting (SFT)	674,941.1993	
Elevation (SFT)*		

Convergence Angle	-1	10	30.2927585
Scale Factor	0.999923673		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	50	56.7142152	
Longitude	94	5	58.2689832	
Ellipsoid Height (M):				
Geoid Height (M):	-27.833			

Location Description

THE STATION IS NORTHEAST OF BEN LOMOND, 55 FEET SOUTH OF THE CENTERLINE OF HWY. 27, 5 FEET NORTH OF A FENCE, 8 FEET NORTH AND 4 FEET EAST OF A TELEPHONE RISER BOX AND 500 FEET EAST OF A CROSSDRAIN ON HWY. 27.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	90660005
Geodetic Azimuth	277 18 46
Grid Azimuth	278 29 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	ASHDOWN NW BASE
Ref Mon # 2	PATE
Ref Mon # 3	FALLS

Comments

Old point number 90660006

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660007	9/17/1992	AHTD	SEVIER	71	003948, 030249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	553,873.5096	
Easting (M)	197,659.9345	
Elevation (M)*	128.623	
Northing (SFT)	1,817,166.6727	
Easting (SFT)	648,489.3018	
Elevation (SFT)*	421.991	

Convergence Angle	-1	13	35.4625339
Scale Factor			0.999918470
Elevation Adjust. Factor			0.9999798153
Combined Adjust. Factor			0.9998982869

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	2	4.1476416
Longitude	94	11	29.1125184
Ellipsoid Height:			100.871
Grid Northing (Meters)			553,873.5050
Grid Easting (Meters)			197,659.9220

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	2	4.1478000
Longitude	94	11	29.1120360
Ellipsoid Height (M):	80.267		
Geoid Height (M):	-27.749		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 8.40 MILES TO THE STATION ON THE LEFT. THE STATION IS 46 FEET EAST OF THE CENTER OF U.S. HIGHWAY 71, 31 FEET NORTH OF THE ENTRANCE TO JO-PAULS STORE AND 3.80 FEET WEST OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN POWER POLE	159	45.99	150.9
MK # 2	NBC IN POWER POLE	341	71.03	233.0
MK # 3	NBC IN UNDERGROUND CABLE MARKER	251	28.81	94.5

AZ Mark Station	92660007A
Geodetic Azimuth	170 27 26
Grid Azimuth	171 41 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

OLD PN = 92660007

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660007A	9/17/1992	AHTD	SEVIER	71	003948, 030249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	553,408.7860	
Easting (M)	197,727.8530	
Elevation (M)*	107.901	
Northing (SFT)	1,815,641.9921	
Easting (SFT)	648,712.1311	
Elevation (SFT)*	354.005	

Convergence Angle	-1	13	33.7638960
Scale Factor	0.999918472		
Elevation Adjust. Factor	0.9999830671		
Combined Adjust. Factor	0.9999015405		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	1	49.1146176	
Longitude	94	11	26.0770776	
Ellipsoid Height (M):	80.242			
Geoid Height (M):	-27.659			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 8.70 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET WEST OF THE CENTER OF U.S. HIGHWAY 71, 103 FEET SOUTH OF A FIELD ENTRANCE, AND 1.75 FEET EAST OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN CORNER FENCE POST	341	25.64	84.1
MK # 2	NBC IN POWER POLE	170	13.30	43.6
MK # 3	NBC IN 18" PINE	79	34.41	112.9

AZ Mark Station	92660007
Geodetic Azimuth	350 27 27
Grid Azimuth	351 41 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

OLD PN = 92660007A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660008	9/17/1992	AHTD	SEVIER	71	003948, 030249, 30108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	555,283.7991	
Easting (M)	192,230.8540	
Elevation (M)*	128.623	
Northing (SFT)	1,821,793.5975	
Easting (SFT)	630,677.3935	
Elevation (SFT)*	421.991	

Convergence Angle	-1	15	34.5746634
Scale Factor			0.999918490
Elevation Adjust. Factor			0.9999798153
Combined Adjust. Factor			0.9998983069

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	2	46.0888152	
Longitude	94	15	1.9298160	
Ellipsoid Height (M):	100.871			
Geoid Height (M):	-27.752			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 4.67 MILES TO THE STATION ON THE LEFT. THE STATION IS 45 FEET NORTH OF THE CENTER OF U.S. HIGHWAY 71, 308 FEET EAST OF THE CENTER OF A PAVED PRIVATE DRIVE, AND 2 FEET SOUTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	80	43.64	143.2
MK # 2	NBC IN 10" PINE	168	28.29	92.8
MK # 3	NBC IN 10" PINE	190	29.55	96.9

AZ Mark Station	92660008A
Geodetic Azimuth	92 11 45
Grid Azimuth	93 27 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

OLD PN = 92660008

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660008A	9/17/1992	AHTD	SEVIER	71	003948, 030249, 30108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	555,252.5600
Easting (M)	192,748.2010
Elevation (M)*	121.600
Northing (SFT)	1,821,691.1073
Easting (SFT)	632,374.7228
Elevation (SFT)*	398.949

Convergence Angle	-1	15	23.2722081
Scale Factor			0.999918490
Elevation Adjust. Factor			0.9999809174
Combined Adjust. Factor			0.9998994089

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	2	45.4437816
Longitude	94	14	41.7357060
Ellipsoid Height (M):	93.853		
Geoid Height (M):	-27.747		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO SOUTH ON U.S. HIGHWAY 71 FOR 5.0 MILES TO THE STATION ON THE RIGHT. THE STATION IS 47 FEET SOUTH OF THE CENTER OF U.S. HIGHWAY 71, 121 FEET EAST OF THE SOUTH ENTRANCE TO TAYLOR TRACTOR EQUIPMENT AND 1.9 FEET NORTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	293	52.69	172.9
MK # 2	NBC IN COMBINATION POLE	262	30.03	98.5
MK # 3	NBC IN POWER POLE	52	55.86	183.3

AZ Mark Station	92660008
Geodetic Azimuth	272 11 56
Grid Azimuth	273 27 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

OLD PN = 92660008A

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660009 RESET	4/2/2002	AHTD	SEVIER	70	30108, 3948, 030249,030427

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	555,369.8650	
Easting (M)	184,514.9870	
Elevation (M)*	132.487	
Northing (SFT)	1,822,075.9654	
Easting (SFT)	605,362.9198	
Elevation (SFT)*	434.669	

Convergence Angle	-1	18	22.9594533
Scale Factor	0.999918488		
Elevation Adjust. Factor	0.9999792089		
Combined Adjust. Factor	0.9998976986		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	2	43.2741588
Longitude	94	20	2.7831156
Ellipsoid Height (M):	104.708		
Geoid Height (M):	-27.814		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 LOCATED IN DEQUEEN, GO WEST ON U.S. HIGHWAY 70 FOR 0.21 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS WEST OF THE CENTER OF A CONCRETE DRIVE TO THE FARM BUREAU OFFICE, 7.30 METERS SOUTH OF THE EDGE OF A CONCRETE SIDEWALK, 5.00 METERS NORTH OF A CONCRETE CURB, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660009 RESET 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	19	6.70	22.0
MK # 2	POWER POLE	242	12.25	40.2
MK # 3				

AZ Mark Station	92660009A
Geodetic Azimuth	90 13 27
Grid Azimuth	91 31 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

DIGITAL LEVELS WERE RAN BY S5112 FROM NGS BM V 302 AND U 302 DURING JOB 030427 IN OCT 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660009A	9/17/1992	AHTD	SEVIER	70	30108, 3948, 030249,030427

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	555,361.3980	
Easting (M)	184,831.8690	
Elevation (M)*	126.174	
Northing (SFT)	1,822,048.1866	
Easting (SFT)	606,402.5569	
Elevation (SFT)*	413.957	

Convergence Angle	-1	18	16.0416891
Scale Factor	0.999918488		
Elevation Adjust. Factor	0.9999801995		
Combined Adjust. Factor	0.9998986891		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	34	2	43.2337308
Longitude	94	19	50.4231384
Ellipsoid Height (M):	98.459		
Geoid Height (M):	-27.812		

Location Description

THIS STATION IS LOCATED 168 FEET WEST OF THE JUNCTION OF U.S. HIGHWAY 71 AND U.S. HIGHWAY 70 IN DEQUEEN, 66 FEET SOUTH OF THE CENTER OF U.S. HIGHWAY 70, 33 FEET EAST OF A CONCRETE ENTRANCE TO WAL-MART, AND 1.34 METERS NORTH OF A WITNESS POST. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF LIGHT BASE BOLT	235	6.25	20.5
MK # 2	NBC IN LIGHT POLE	87	37.73	123.8
MK # 3	"X" CUT IN RETAINING WALL	104	23.01	75.5

AZ Mark Station	660009 RESET
Geodetic Azimuth	270 13 34
Grid Azimuth	271 31 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

DIGITAL LEVELS WERE RAN BY S5112 FROM NGS BM V 302 AND U 302 DURING JOB 030427 IN OCT 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660011	2/2/1994	AHTD	SEVIER	71	030249, 30006

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	563,185.1470	
Easting (M)	186,334.3670	
Elevation (M)*	216.149	
Northing (SFT)	1,847,716.6031	
Easting (SFT)	611,332.0024	
Elevation (SFT)*	709.149	

Convergence Angle	-1	17	47.1238612
Scale Factor	0.999919483		
Elevation Adjust. Factor	0.9999660803		
Combined Adjust. Factor	0.9998855661		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	58.2131160
Longitude	94	18	58.7556216
Ellipsoid Height (M):	188.156		
Geoid Height (M):	-27.993		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH OF HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 4.60 MILES TO THE STATION ON THE RIGHT. THE STATION IS 20.10 METERS WEST NORTHWEST OF THE CENTER OF U.S. HIGHWAY 71, 24.84 METERS NORTH NORTHEAST OF THE CENTER OF A DRIVEWAY AND O.50 METERS EAST SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660011 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF GAS METER	352	4.60	15.1
MK # 2				
MK # 3				

AZ Mark Station	660011A
Geodetic Azimuth	46 32 07
Grid Azimuth	47 49 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660011A	2/2/1994	AHTD	SEVIER	71	030249, 30006

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	563,490.1120	
Easting (M)	186,671.0710	
Elevation (M)*	202.891	
Northing (SFT)	1,848,717.1425	
Easting (SFT)	612,436.6721	
Elevation (SFT)*	665.652	

Convergence Angle	-1	17	39.9221673
Scale Factor			0.999919554
Elevation Adjust. Factor			0.9999681608
Combined Adjust. Factor			0.9998877174

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	7	8.3559360	
Longitude	94	18	45.8883468	
Ellipsoid Height (M):	174.893			
Geoid Height (M):	-27.998			

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHA, GO NORTH OF HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 4.31 MILES TO THE STATION ON THE LEFT. THE STATION IS 16.20 METERS EAST SOUTHEAST OF THE CENTER OF U.S. HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660011A 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	28	24.45	80.2
MK # 2				
MK # 3				

AZ Mark Station	660011
Geodetic Azimuth	226 32 15
Grid Azimuth	227 49 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660012	2/2/1994	AHTD	SEVIER	N/A	030249, 30006

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	566,652.1949	
Easting (M)	186,928.6930	
Elevation (M)*	184.367	
Northing (SFT)	1,859,091.4094	
Easting (SFT)	613,281.8870	
Elevation (SFT)*	604.877	

Convergence Angle	-1	17	35.8554716
Scale Factor	0.999920411		
Elevation Adjust. Factor	0.9999710676		
Combined Adjust. Factor	0.9998914809		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	8	51.1503612
Longitude	94	18	38.6223768
Ellipsoid Height (M):	156.280		
Geoid Height (M):	-28.087		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH ON HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 1.95 MILES TO THE JUNCTION OF KING ROAD ON THE LEFT. TURN LEFT (EAST) ON KING ROAD AND GO 0.27 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5.40 METERS SOUTH OF A PAVED ROAD (KING ROAD), 30.00 METERS WEST OF A FIELD ENTRANCE AND 0.80 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660012 1994" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	660012A
Geodetic Azimuth	271 40 42
Grid Azimuth	272 58 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660012A	2/2/1994	AHTD	SEVIER	N/A	030249, 30006

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	566,675.5340	
Easting (M)	186,479.1060	
Elevation (M)*	186.102	
Northing (SFT)	1,859,167.9811	
Easting (SFT)	611,806.8669	
Elevation (SFT)*	610.570	

Convergence Angle	-1	17	45.6876561
Scale Factor	0.999920415		
Elevation Adjust. Factor	0.9999707954		
Combined Adjust. Factor	0.9998912127		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	8	51.5779836
Longitude	94	18	56.1895524
Ellipsoid Height (M):	158.008		
Geoid Height (M):	-28.094		

Location Description

TO REACH THE STATION FROM THE U.S. POST OFFICE IN GILLHAM, GO NORTH ON HORNBECK AVENUE FOR 0.21 MILES TO THE JUNCTION OF U.S. HIGHWAY 71 AND 59, TURN RIGHT (SOUTH) ON U.S. HIGHWAY 71 FOR 1.95 MILES TO THE JUNCTION OF BELLA MINE ROAD ON THE RIGHT. TURN RIGHT (WEST) ON BELLA MINE ROAD AND GO 0.06 MILES TO THE STATION ON THE RIGHT. THE STATION IS 7.00 METERS NORTH OF BELLA MINE ROAD, 3.75 METERS SOUTH OF THE EDGE OF A GARDEN, 50.74 METERS WEST OF THE CENTER OF A DRIVEWAY AND 1.25 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660012A 1991" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF WOODEN BARN	50	25.00	82.0
MK # 2	NGS BENCH MARK L 302	85	84.04	275.7
MK # 3	12" CEDAR	140	25.63	84.1

AZ Mark Station	660012
Geodetic Azimuth	91 40 33
Grid Azimuth	92 58 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660013	5/7/2001	AHTD	SEVIER	71	30108, 030242

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	536,870.8130
Easting (M)	199,730.7173
Elevation (M)*	
Northing (SFT)	1,761,383.6590
Easting (SFT)	655,283.1950
Elevation (SFT)*	
Convergence Angle	-1 12 42.4414432
Scale Factor	0.999922007
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 52 53.8300272
Longitude	94 9 54.3791916
Ellipsoid Height (M):	117.932
Geoid Height (M):	-27.301

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATIO FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71,LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 5.19 KM (3.18 MI) TO THE STATION ON THE RIGHT. THE STATION IS 29.50 METERS SOUTH OF THE CENTER OF TIMBER RIDGE ROAD, 12.65 METERS EAST OF THE CENTER OF U S HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660013 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.735 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	347	19.55	64.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	660013A
Geodetic Azimuth	355 44 38.13939
Grid Azimuth	356 57 20.58296

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660013A	5/7/2001	AHTD	SEVIER	71	30108, 030242

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	537,546.5305
Easting (M)	199,694.7808
Elevation (M)*	
Northing (SFT)	1,763,600.5755
Easting (SFT)	655,165.2933
Elevation (SFT)*	
Convergence Angle	-1 12 43.5353452
Scale Factor	0.999921731
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 53 15.7330716
Longitude	94 9 56.3336676
Ellipsoid Height (M):	115.418
Geoid Height (M):	-27.312

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 5.79 KM (3.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.75 METERS EAST OF THE CENTER OF U S HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660013A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 676.735 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	182	3.10	10.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	660013
Geodetic Azimuth	175 44 37.04972
Grid Azimuth	176 57 20.58296

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660014	5/7/2001	AHTD	SEVIER	71	30108, 030242

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	541,250.6237
Easting (M)	198,803.7242
Elevation (M)*	
Northing (SFT)	1,775,753.0879
Easting (SFT)	652,241.8851
Elevation (SFT)*	

Convergence Angle	-1	13	4.6557096
Scale Factor	0.999920421		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	55	15.3209316
Longitude	94	10	34.0694472
Ellipsoid Height (M):	83.049		
Geoid Height (M):	-27.388		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURD, GO NORTH ON U S HIGHWAY 71 FOR 9.65 KM (6.00 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.50 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.60 METERS EAST OF THE CENTER OF U S HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 62 mm CAP STAMPED "660014 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 911.529 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	5	8.10	26.6
MK # 2	CONCRETE RIGHT OF WAY MARKER	170	15.15	49.7
MK # 3	NONE			

AZ Mark Station	660014A
Geodetic Azimuth	0 37 10.964979
Grid Azimuth	1 50 15.620381

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660014A	5/7/2001	AHTD	SEVIER	71	30108, 030242

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	542,161.6001
Easting (M)	198,832.9524
Elevation (M)*	
Northing (SFT)	1,778,741.8497
Easting (SFT)	652,337.7780
Elevation (SFT)*	
Convergence Angle	-1 13 4.4408703
Scale Factor	0.999920149
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 55 44.9029884
Longitude	94 10 33.6855936
Ellipsoid Height (M):	92.807
Geoid Height (M):	-27.406

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND U S HIGHWAY 71, LOCATED ABOUT 14.48 KM (9 MI) SOUTH OF LOCKESBURD, GO NORTH ON U S HIGHWAY 71 FOR 10.57 KM (6.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.00 METERS EAST OF THE CENTER OF MELROSE ROAD, 12.90 METERS WEST OF THE CENTER OF U S HIGHWAY 71, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660014A 2001" SET ON TOP OF AN IRON ROD 0.37 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 911.529 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	CHAINLINK FENCE CORNER POST	196	30.40	99.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	660014
Geodetic Azimuth	180 37 11.17921
Grid Azimuth	181 50 15.62038

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660015	5/7/2001	AHTD	SEVIER	71	30108, 030242

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	546,683.1769
Easting (M)	199,491.2238
Elevation (M)*	
Northing (SFT)	1,793,576.3895
Easting (SFT)	654,497.4568
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	58	12.0847764
Longitude	94	10	11.7911100
Ellipsoid Height (M):	98.192		
Geoid Height (M):	-27.489		

Convergence Angle	-1	12	52.1867317
Scale Factor	0.999919098		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 371, AND U S HIGHWAY 71 LOCATED IN LOCKESBURG, GO WEST ON STATE HIGHWAY 24 FOR 0.16 KM (0.10 MI) TO NORTH WEST AVENUE. TURN NORTH ON NORTH WEST AVENUE AND GO 0.29 KM (.18 MI) TO A RAILROAD CROSSING AND THE STATION ON THE RIGHT. THE STATION IS 14.00 METERS EAST OF THE CENTER OF NORTH WEST AVENUE, 10.33 METERS NORTH OF THE NORTH RAIL, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660015 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 424.904 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	99	19.90	65.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	660015A
Geodetic Azimuth	269 34 11.40870
Grid Azimuth	270 47 03.60314

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660015A	5/7/2001	AHTD	SEVIER	371	30108, 030015, 030624

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (2011)	
Northing (M)	546,688.9907	
Easting (M)	199,066.4259	
Elevation (M)*		
Northing (SFT)	1,793,595.4637	
Easting (SFT)	653,103.7656	
Elevation (SFT)*		

Convergence Angle	-1	13	1.4495578
Scale Factor			0.999919098
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	58	11.9808840
Longitude	94	10	28.3410120
Ellipsoid Height (M):	93.402		
Geoid Height (M):	-27.565		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 371, AND U S HIGHWAY 71 LOCATED IN LOCKESBURG, GO WEST ON STATE HIGHWAY 24 FOR .499KM (.31 MI) TO NORTH PARK AVENUE. TURN NORTH ON NORTH PARK AVENUE AND GO .29KM (.18 MI) TO A RAILROAD CROSSING AND THE STATION ON THE LEFT. THE STATION IS 11.48 METERS SOUTH OF THE SOUTH RAIL, 10.48 METERS NORTH OF THE NORTH RAIL, 11.00 METERS WEST OF THE CENTER OF NORTH PARK AVENUE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660015A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 424.904 METERS.

SUPERCEDED CONTROL

Horizontal Datum	NAD 81 (1997)		
Latitude	33	58	11.9809344
Longitude	94	10	28.3420020
Ellipsoid Height:	93.474		
Grid Northing (Meters)	546,688.9927		
Grid Easting (Meters)	199,066.4005		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	0.80 DIAMETER CONCRETE PIPE	156	7.90	25.9
MK # 2	0.80 DIAMETER CONCRETE PIPE	22	7.30	24.0
MK # 3	NONE			

AZ Mark Station	660015
Geodetic Azimuth	89 34 02.160744
Grid Azimuth	90 47 03.603143

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660016	5/8/2001	AHTD	SEVIER	71	30108, 030015

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	550,183.5161
Easting (M)	198,975.5133
Elevation (M)*	
Northing (SFT)	1,805,060.4191
Easting (SFT)	652,805.4966
Elevation (SFT)*	
Convergence Angle	-1 13 5.0510626
Scale Factor	0.999918634
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 0 5.3173044
Longitude	94 10 34.7758248
Ellipsoid Height (M):	99.289
Geoid Height (M):	-27.571

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 71, AND U S HIGHWAY 371 IN LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 3.88 KM (2.41 MI) TO THE STATION ON THE LEFT. THE STATION IS 48.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 10.35 METERS WEST OF THE CENTER OF U S HIGHWAY 71, AND 1.45 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660016 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 422.324 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF METAL FENCE PO ST	323	2.70	8.9
MK # 2	BRICK FENCE POST	343	37.20	122.0
MK # 3	NONE			

AZ Mark Station	660016A
Geodetic Azimuth	164 59 23.20189
Grid Azimuth	166 12 28.25189

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660016A	5/8/2001	AHTD	SEVIER	71	30108, 030015

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	549,773.4022	
Easting (M)	199,076.2027	
Elevation (M)*		
Northing (SFT)	1,803,714.9037	
Easting (SFT)	653,135.8417	
Elevation (SFT)*		

Convergence Angle	-1	13	2.6652798
Scale Factor			0.999918673
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1987)
Latitude	33	59	52.0787184
Longitude	94	10	30.5138496
Ellipsoid Height:			99.924
Grid Northing (Meters)			549,773.4129
Grid Easting (Meters)			199,076.1848

Vertical Determined By:			NONE
Elevation Datum:			NONE
Geoid Datum:			
Latitude	33	59	52.0783836
Longitude	94	10	30.5131440
Ellipsoid Height (M):			99.832
Geoid Height (M):			-27.637

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 24, U S HIGHWAY 71, AND U S HIGHWAY 371 IN LOCKESBURG, GO NORTH ON U S HIGHWAY 71 FOR 3.46 KM (2.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.00 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, 11.40 METERS EAST OF THE CENTER OF U S HIGHWAY 71, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660016A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 422.324 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORRIGATED METAL PIPE	336	17.55	57.6
MK # 2	POWER POLE	345	26.00	85.3
MK # 3	NONE			

AZ Mark Station	660016
Geodetic Azimuth	344 59 25.58513
Grid Azimuth	346 12 28.25189

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	X 303
Ref Mon # 3	DEQUEEN CORS 1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660017	4/2/2002	AHTD	SEVIER	71	30108, 030249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	559,265.7730	
Easting (M)	185,573.1770	
Elevation (M)*	174.140	
Northing (SFT)	1,834,857.7903	
Easting (SFT)	608,834.6649	
Elevation (SFT)*	571.324	

Convergence Angle	-1	18	1.8020492
Scale Factor	0.999918794		
Elevation Adjust. Factor	0.9999726725		
Combined Adjust. Factor	0.9998914687		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	4	50.4739020
Longitude	94	19	24.9811572
Ellipsoid Height (M):	146.239		
Geoid Height (M):	-27.901		

Location Description

THIS STATION IS LOCATED AT THE A.H.T.D. SEVIER COUNTY AREA MAINT. HEADQUARTERS. THE STATION IS 12.00 METERS SOUTH OF THE CENTER OF THE NORTHERN MOST PAVED DRIVE TO THE MAINT. AREA PARKING LOT, 10.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVEL, BY CREW S5102 FROM NOAA BENCH MARK S 302.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER LINE OF A CONCRETE HEAD WALL	317	7.00	23.0
MK # 2	GAS METER	174	30.50	100.1
MK # 3				

AZ Mark Station	660017A
Geodetic Azimuth	7 33 35
Grid Azimuth	8 51 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660017A	4/2/2002	AHTD	SEVIER	71	30108, 030249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	559,919.4490
Easting (M)	185,675.0740
Elevation (M)*	
Northing (SFT)	1,837,002.3923
Easting (SFT)	609,168.9719
Elevation (SFT)*	
Convergence Angle	-1 17 59.9017574
Scale Factor	0.999918883
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 5 11.7600576
Longitude	94 19 21.5859036
Ellipsoid Height (M):	157.239
Geoid Height (M):	-27.914

Location Description

TO REACH THIS STATION FROM THE A.H.T.D. SEVIER COUNTY AREA MAINT. HEADQUARTERS, GO NORTH ON U.S. HIGHWAY 71 FOR 0.41 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12.25 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660017A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LOG MILE 3 SIGN POST	339	15.50	50.9
MK # 2				
MK # 3				

AZ Mark Station	660017
Geodetic Azimuth	187 33 37
Grid Azimuth	188 51 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660018	4/2/2002	AHTD	SEVIER	71	030249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	571,349.2679
Easting (M)	186,122.0510
Elevation (M)*	
Northing (SFT)	1,874,501.7231
Easting (SFT)	610,635.4290
Elevation (SFT)*	
Convergence Angle	-1 17 55.8017737
Scale Factor	0.999922129
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	11	22.9710948
Longitude	94	19	14.2604580
Ellipsoid Height (M):	209.037		
Geoid Height (M):	-28.256		

Location Description

TO REACH THE STATION FROM THE SEVIER/POLK COUNTY LINE LOCATED ON THE NORTH SIDE OF GILLHAM, GO SOUTH ON U.S. HIGHWAY 71 FOR 0.13 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.10 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71 AND 2.25 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660018 2002" SET ON TOP OF AN IRON ROD 0.95 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHERN MOST WOODEN GATE POST	207	11.35	37.2
MK # 2				
MK # 3				

AZ Mark Station	570006
Geodetic Azimuth	18 37 33
Grid Azimuth	19 55 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660019A	4/8/2002	AHTD	SEVIER	70	030249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	555,442.4020
Easting (M)	181,811.9740
Elevation (M)*	
Northing (SFT)	1,822,313.9472
Easting (SFT)	596,494.7847
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	2	43.6151724
Longitude	94	21	48.2144904
Ellipsoid Height (M):	96.576		
Geoid Height (M):	-27.836		

Convergence Angle	-1	19	21.9684118
Scale Factor	0.999918488		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 399 LOCATED ON THE WEST SIDE OF DEQUEEN, GO EAST ON U.S. HIGHWAY 70 FOR 0.19 MILES TO THE STATION ON THE RIGHT. THE STATION IS 24.90 METERS WEST OF THE CENTER OF HOMERUN DRIVE, 17.95 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660019A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	138	20.80	68.2
MK # 2	POLE WITH SIREN MOUNTED ON TOP	153	26.60	87.3
MK # 3				

AZ Mark Station	660019
Geodetic Azimuth	270 51 12
Grid Azimuth	272 10 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	DEQUEEN CORS 1
Ref Mon # 2	X 303
Ref Mon # 3	HOCHATOWN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660020	2/11/2003	AHTD	SEVIER	71	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	528,515.1391
Easting (M)	201,265.7310
Elevation (M)*	
Northing (SFT)	1,733,970.0855
Easting (SFT)	660,319.3191
Elevation (SFT)*	
Convergence Angle	-1 12 5.1982232
Scale Factor	0.999926331
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	48	23.7274236
Longitude	94	8	47.8366872
Ellipsoid Height (M):	61.922		
Geoid Height (M):	-27.169		

Location Description

TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO NORTH ON U.S. HIGHWAY 71 FOR 1.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 12.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, 6.40 METERS SOUTH OF A GRAVEL ROAD, (RIVER ROAD), AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660020 2003" SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF GUARD RAIL		7.10	23.3
MK # 2				
MK # 3				

AZ Mark Station	660020A
Geodetic Azimuth	184 07 49
Grid Azimuth	185 19 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660020A	2/11/2003	AHTD	SEVIER	71	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	527,348.4782
Easting (M)	201,156.8490
Elevation (M)*	
Northing (SFT)	1,730,142.4656
Easting (SFT)	659,962.0954
Elevation (SFT)*	
Convergence Angle	-1 12 7.0346330
Scale Factor	0.999927075
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 47 45.7935072
Longitude	94 8 51.1178028
Ellipsoid Height (M):	61.697
Geoid Height (M):	-27.154

Location Description

TO REACH THE STATION FROM THE SEVIER / LITTLE RIVER COUNTY LINE, GO NORTH ON U.S. HIGHWAY 71 FOR 0.35 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.15 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, 1.25 METERS WEST OF GUARD RAIL, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660020A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN GUARD RAIL POST	151	5.22	17.1
MK # 2	PUNCH MARK IN GUARD RAIL POST	62	1.50	4.9
MK # 3	PUNCH MARK IN GUARD RAIL POST	126	4.48	14.7

AZ Mark Station	660020
Geodetic Azimuth	4 07 48
Grid Azimuth	5 19 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660021	2/11/2003	AHTD	SEVIER	24	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	547,311.9861
Easting (M)	193,680.2320
Elevation (M)*	
Northing (SFT)	1,795,639.4077
Easting (SFT)	635,432.5612
Elevation (SFT)*	
Convergence Angle	-1 14 59.1575149
Scale Factor	0.999919012
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 58 28.4341296
Longitude	94 13 58.6499556
Ellipsoid Height (M):	78.540
Geoid Height (M):	-27.554

Location Description

TO REACH THE STATION FROM THE JUCTION OF STATE HIGHWAYS 24 AND 329 LOCATED ABOUT 4 MILE WEST OF LOCKSBURG, GO EAST ON STATE HIGHWAY 24 FOR 0.12 MILES TO THE STATION ON THE LEFT. THE STATION IS 10.35 METERS NORTH OF THE CENTER OF STATE HIGHWAY 24 AND 1.10 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660021 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	660021A
Geodetic Azimuth	106 46 32
Grid Azimuth	108 01 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660021A	2/11/2003	AHTD	SEVIER	24	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	547,119.9390
Easting (M)	194,270.4030
Elevation (M)*	
Northing (SFT)	1,795,009.3332
Easting (SFT)	637,368.8138
Elevation (SFT)*	
Convergence Angle	-1 14 46.2008136
Scale Factor	0.999919042
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	58	22.6193664
Longitude	94	13	35.5002024
Ellipsoid Height (M):	76.004		
Geoid Height (M):	-27.546		

Location Description

TO REACH THE STATION FROM THE JUCTION OF STATE HIGHWAYS 24 AND 329 LOCATED ABOUT 4 MILE WEST OF LOCKSBURG, GO EAST ON STATE HIGHWAY 24 FOR 0.50 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 24 AND,3.60 METERS WEST OF A GRAVEL DRIVE, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660021A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GATE POST	112	6.20	20.3
MK # 2	CORRIGATED METAL PIPE	358	3.25	10.7
MK # 3				

AZ Mark Station	660021
Geodetic Azimuth	286 46 45
Grid Azimuth	288 01 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660022	2/11/2003	AHTD	SEVIER	329	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	551,961.9411
Easting (M)	188,606.6050
Elevation (M)*	
Northing (SFT)	1,810,895.1351
Easting (SFT)	618,786.8366
Elevation (SFT)*	
Convergence Angle	-1 16 52.0271734
Scale Factor	0.999918524
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	34 0 55.6877700
Longitude	94 17 20.3143056
Ellipsoid Height (M):	111.993
Geoid Height (M):	-27.696

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 41 AND 329 LOCATED IN DEQUEEN,GO SOUTH ON STATE HIGHWAY 329 FOR 2.94 MILES TO THE STATION ON THE RIGHT. THE STATION IS 8.2 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 329, 8.3 METERS NORTH OF A GRAVEL DRIVE, AND 1.25 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660022 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	295	4.85	15.9
MK # 2	REINFORCED CONCRETE PIPE	155	9.20	30.2
MK # 3				

AZ Mark Station	660022A
Geodetic Azimuth	129 43 17
Grid Azimuth	131 00 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660022A	2/11/2003	AHTD	SEVIER	329	030208

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	551,545.2620
Easting (M)	189,085.8980
Elevation (M)*	
Northing (SFT)	1,809,528.0804
Easting (SFT)	620,359.3170
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	0	42.5141136
Longitude	94	17	1.2749388
Ellipsoid Height (M):	116.202		
Geoid Height (M):	-27.682		

Convergence Angle	-1	16	41.3710171
Scale Factor	0.999918547		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 41 AND 329 LOCATED IN DEQUEEN,GO SOUTH ON STATE HIGHWAY 329 FOR 3.34 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.6 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 329 AND 0.90 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "660022A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY WIRE	332	1.95	6.4
MK # 2	FENCE CORNER	108	10.40	34.1
MK # 3				

AZ Mark Station	660022
Geodetic Azimuth	309 43 28
Grid Azimuth	311 00 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	X 303, 660015,660017
Ref Mon # 2	DQUA CORS,410001
Ref Mon # 3	ARTX CORS, HOPE CORS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660023	2/23/2012	AHTD	Sevier	hwy.70	030412

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	557,209.3960	
Easting (M)	171,875.6332	
Elevation (M)*	107.777	
Northing (SFT)	1,828,111.1600	
Easting (SFT)	563,895.3066	
Elevation (SFT)*	353.598	

Convergence Angle	-1	22	59.6781726	
Scale Factor			0.999918563	
Elevation Adjust. Factor			0.9999830866	
Combined Adjust. Factor			0.9999016509	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NGVD 29			
Geoid Datum:	Geoid 96			
Latitude	34	3	33.3362376	
Longitude	94	28	17.1967728	
Ellipsoid Height (M):	79.834			
Geoid Height (M):	-27.954			

Location Description

From the Arkansas and Oaklahoma state line, go east on hwy. 70 for 0.1 miles to the station on the right. Standard alum cap stamped 660023 2012 with a 4 ft.x5/8s rebar

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	south of cl. hwy 70	350	22.25	73.0
MK # 2	NE of telephone box	257	23.16	76.0
MK # 3	North of T of fence	170	2.43	8.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660023A	2/23/2012	AHTD	Sevier	hwy.70	030412

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	557,297.4789	
Easting (M)	172,569.2383	
Elevation (M)*	106.822	
Northing (SFT)	1,828,400.1454	
Easting (SFT)	566,170.9093	
Elevation (SFT)*	350.464	

Convergence Angle	-1	22	44.5897396
Scale Factor	0.999918570		
Elevation Adjust. Factor	0.9999832365		
Combined Adjust. Factor	0.9999018079		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NGVD 29		
Geoid Datum:	Geoid 96		
Latitude	34	3	36.7369812
Longitude	94	27	50.2382520
Ellipsoid Height (M):	78.884		
Geoid Height (M):	-27.952		

Location Description

From the Arkansas and Oaklahoma state line, go east on hwy. 70 for 0.5 miles to the station on the right, station is a standard alum. cap stamped 660023A 2012 on a 4 ft.x5/8s rebar.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	south of cl of hwy.71	345	14.93	49.0
MK # 2	West of 36" pine	83	30.00	98.4
MK # 3	East of 36" pine stump	252	32.00	105.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660024	2/23/2012	AHTD	Sevier	Hwy.70	030412

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	555,473.9023	
Easting (M)	177,961.0493	
Elevation (M)*	106.592	
Northing (SFT)	1,822,417.2945	
Easting (SFT)	583,860.5426	
Elevation (SFT)*	349.711	

Convergence Angle	-1	20	46.0005981
Scale Factor	0.999918486		
Elevation Adjust. Factor	0.9999832725		
Combined Adjust. Factor	0.9999017599		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NGVD 29		
Geoid Datum:	Geoid 96		
Latitude	34	2	41.7264792
Longitude	94	24	18.3548952
Ellipsoid Height (M):	78.715		
Geoid Height (M):	-27.864		

Location Description

From the Arkansas and Oaklahoma state line, go east on hwy. 70 for 4.2 miles to the station on the left. Standard alum cap stamped 660024 2012, on a 4 ft.x5/8s rebar.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southwest of 36" CMP	40	8.84	29.0
MK # 2	West of Sevier Co. Airport entrance	90	14.32	47.0
MK # 3	South of cl hwy.70	190	31.00	101.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660024A	2/23/2012	AHTD	Sevier	hwy.70	030412

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	555,741.1691	
Easting (M)	177,325.6680	
Elevation (M)*	103.737	
Northing (SFT)	1,823,294.1523	
Easting (SFT)	581,775.9624	
Elevation (SFT)*	340.344	

Convergence Angle	-1	21	0.0000858
Scale Factor			0.999918494
Elevation Adjust. Factor			0.9999837205
Combined Adjust. Factor			0.9999022159

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NGVD 29		
Geoid Datum:	Geoid 96		
Latitude	34	2	49.9137288
Longitude	94	24	43.3677960
Ellipsoid Height (M):	75.854		
Geoid Height (M):	-27.875		

Location Description

From the Arkansas and Oaklahoma state line, go east for 3.8 miles to the station on the left. Standard alum cap stamped 660024A 2012 with a 4 ft.x 5/8s rebar.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE of cl hwy.70	215	24.00	78.7
MK # 2	NW fo gravel dr.	120	5.49	18.0
MK # 3	South of fence w/ 5 stran barb	30	3.00	9.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 WR DIGITAL LEVELS WERE RAN FROM NGS BM B 22 HOLDING A COMPUTED ELEV. OF 426.3395 WHICH WAS DETERMINED DURING JOB 030427 FROM 1ST ORDER BMs U 302 AND V 302. (PUBLISHED ELEV. FOR B 22 = 426.44) BY CREW S5112 DURING JOB 030412.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660025	2/23/2012	AHTD	Sevier	hwy.70	030413

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	560,504.3440	
Easting (M)	206,848.8038	
Elevation (M)*	115.292	
Northing (SFT)	1,838,921.3353	
Easting (SFT)	678,636.4505	
Elevation (SFT)*	378.254	

Convergence Angle	-1	10	17.9588727
Scale Factor	0.999919045		
Elevation Adjust. Factor	0.9999819072		
Combined Adjust. Factor	0.9999009537		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	34	5	45.5617392
Longitude	94	5	36.2320152
Ellipsoid Height (M):	87.507		
Geoid Height (M):	-27.722		

Location Description

To reach the station from the Sevier and Howard county lines southwest of Dierks go east on Hwy-70 for 0.47 miles to the station on the left near a pull off for access to underneath the bridge. 45 feet north of the center of hwy-70 and 45 feet south of a witness post. The station mark ia a 2 1/2 inch cap stamped "660025 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North of 5 strand barb fence	175	13.71	45.0
MK # 2	South of cl hwy.70	350	14.94	49.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660025A	2/23/2012	AHTD	Sevier	Hwy.70	030413

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	560,511.2030	
Easting (M)	207,538.7616	
Elevation (M)*	113.992	
Northing (SFT)	1,838,943.8385	
Easting (SFT)	680,900.0870	
Elevation (SFT)*	373.989	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	34	5	46.2414084	
Longitude	94	5	9.3246648	
Ellipsoid Height (M):	86.227			
Geoid Height (M):	-27.714			

Convergence Angle	-1	10	2.8990793
Scale Factor	0.999919048		
Elevation Adjust. Factor	0.9999821113		
Combined Adjust. Factor	0.9999011607		

Location Description

To reach the station from the Sevier and Howard county lines southwest of Dierks go east on Hwy-70 for 0.37 miles to the station on the right. 51 feet south of the center of Hwy-70, 105 feet NE of a gravel drive and 38 feet north of a witness post. The station mark ia a 2 1/2 inch cap stamped "660025A 2012" set on top of a 5/8 inch by 4 foot long rebar and is 0.10 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	North of cl hwy.70	175	15.54	51.0
MK # 2	NW of GR	105	32.00	105.0
MK # 3	SW of Powerpole	62	32.61	107.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM USGS BM "GAGING STATION" DURING JOB 030413 BY S5112 IN OCT 2012

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660026	2/23/2012	AHTD	Sevier	41	030415

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	542,618.9358	
Easting (M)	180,649.4962	
Elevation (M)*	109.057	
Northing (SFT)	1,780,242.2919	
Easting (SFT)	592,680.8888	
Elevation (SFT)*	357.799	

Convergence Angle	-1	19	40.8447085
Scale Factor	0.999920134		
Elevation Adjust. Factor	0.9999828857		
Combined Adjust. Factor	0.9999030210		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	33	55	46.6320036
Longitude	94	22	21.9407916
Ellipsoid Height (M):	81.524		
Geoid Height (M):	-27.532		

Location Description

To reach the station from the junction of highways 41 and 24 in Horatio go south on hwy-41 for 1.05 miles to the station on the right at the crest of a hill. 35 feet west of the center of hwy-41and 2 feet east of a witness post. The station mark is a 2 1/2 in. cap stamped "660026 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	660026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660026A	2/23/2012	AHTD	Sevier	41	030415

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	542,283.5787	
Easting (M)	180,550.1443	
Elevation (M)*	94.758	
Northing (SFT)	1,779,142.0411	
Easting (SFT)	592,354.9318	
Elevation (SFT)*	310.886	

Convergence Angle	-1	19	42.8398975
Scale Factor	0.999920232		
Elevation Adjust. Factor	0.9999851296		
Combined Adjust. Factor	0.9999053628		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	33	55	35.6751228
Longitude	94	22	25.5055980
Ellipsoid Height (M):	67.232		
Geoid Height (M):	-27.525		

Location Description

To reach the station from the junction of highways 41 and 24 in Horatio go south on highway 41 fror 1.25 miles to the station on the left near a field entrance. 43.3 feet east of the center of hwy-41, 14.1 feet north of the center of a field entrance and 4 feet west of a witness post. The station mark is a 2 1/2 in. cap stamped "660026A 2012" set on top of a 5/8 in. by 4 foot long rebar and is 0.20 ft. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	660026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM NGS BMS E 303, F 303, AND G 303 DURING JOB 030415 BY CREW S5112 IN OCT 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660027	4/11/2017	AHTD	SEVIER	US-71	030008

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	538,967.1475	0.0020
Easting (M)	199,337.0968	0.0020
Elevation (M)*		
Northing (SFT)	1,768,261.3831	
Easting (SFT)	653,991.7918	
Elevation (SFT)*		

Convergence Angle	-1	12	51.9808164
Scale Factor	0.999921189		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	33	54	1.5876288
Longitude	94	10	11.4232008
Ellipsoid Height (M):	95.614	0.0060	
Geoid Height (M):	-27.421	0.0060	

Location Description

TO REACH THE STATION MARK FROMK THE JUNCTION OF US-71 AND US-371, IN LOCKESBURG, GO SOUTH ON US-71 4.8 MILES TO THE STATION ON THE RIGHT. 58' WEST OF THE C/L OF THE HIGHWAY AND 47' SOUTH OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2½" CAP STAMPED "660027 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	S END OF SIDE CULVERT	354	11.28	37.0
MK # 2	E END OF CHURCH SIGN	168	7.32	24.0
MK # 3	NE COR OF BRICK CHURCH	226	22.86	75.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	TXCR
Ref Mon # 3	OKHV

Comments

GPS DERIVED ELEVATION BASED ON CONSTRAINING AHTD CORS SITE ARHP AND 1ST ORDER NGS BM'S A 303 & A 304 IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
660027A	4/11/2017	AHTD	SEVIER	US-71	030008

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	539,343.5756	0.0020
Easting (M)	199,168.6168	0.0020
Elevation (M)*		

Northing (SFT)	1,769,496.3809	
Easting (SFT)	653,439.0370	
Elevation (SFT)*		

Convergence Angle	-1	12	55.8244702
Scale Factor	0.999921054		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12A	
Latitude	33 54 13.6871064	
Longitude	94 10 18.2906616	
Ellipsoid Height (M):	86.819	0.0060
Geoid Height (M):	-27.429	0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF US-71 AND US-371, IN LOCKESBURG, GO SOUTH ON US-71 4.5 MILES TO THE STATION ON THE RIGHT. 33.5' WEST OF THE C/L OF THE HIGHWAY AND 7' EAST OF A CONCRETE DITCH. THE MARK IS A STANDARD 2½" CAP STAMPED "660027A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIBER OPTIC MARKER	188	16.15	53.0
MK # 2	R/W MARKER	195	13.41	44.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	TXCR
Ref Mon # 3	OKHV

Comments

GPS DERIVED ELEVATION BASED ON CONSTRAINING AHTD CORS SITE ARHP AND 1ST ORDER NGS BM'S A 303 & A 304 IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670001	3/19/1999	AHTD	SHARP	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	186,973.5509	
Easting (M)	437,085.6230	
Elevation (M)*	186.541	
Northing (SFT)	613,429.0582	
Easting (SFT)	1,434,005.0815	
Elevation (SFT)*	612.010	

Convergence Angle	0	14	21.8648933
Scale Factor	0.999964512		
Elevation Adjust. Factor	0.9999707265		
Combined Adjust. Factor	0.9999352395		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	4.5824412
Longitude	91	35	18.8757780
Ellipsoid Height (M):	158.704		
Geoid Height (M):	-27.838		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 10.53 KM (6.54 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.32 METERS EAST OF THE CENTER OF U.S. HIGHWAY 167, 5.886 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY AND 4.26 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670001 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END CMP	231	6.31	20.7
MK # 2	GATE POST	132	9.56	31.3
MK # 3	CORNER POST	72	4.37	14.3

AZ Mark Station	670001A
Geodetic Azimuth	346 19 20.48106
Grid Azimuth	346 04 58.60263

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point A 167

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670001A	3/19/1999	AHTD	SHARP	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	187,425.4850	
Easting (M)	436,973.6380	
Elevation (M)*	168.270	
Northing (SFT)	614,911.7787	
Easting (SFT)	1,433,637.6773	
Elevation (SFT)*	552.066	

Convergence Angle	0	14	19.3061611
Scale Factor	0.999965052		
Elevation Adjust. Factor	0.9999735936		
Combined Adjust. Factor	0.9999386466		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	19.2606780
Longitude	91	35	23.2729872
Ellipsoid Height (M):	140.426		
Geoid Height (M):	-27.844		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 10.99 KM (6.83 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.25 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 15.85 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY AND 1.51 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670001A SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CMP	9	12.60	41.3
MK # 2	CORNER POST	340	11.30	37.1
MK # 3	NONE			

AZ Mark Station	670001
Geodetic Azimuth	166 19 17.89520
Grid Azimuth	166 04 58.60263

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670002	3/19/1999	AHTD	SHARP	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	195,241.8810	
Easting (M)	434,822.9940	
Elevation (M)*	155.100	
Northing (SFT)	640,556.0712	
Easting (SFT)	1,426,581.7728	
Elevation (SFT)*	508.857	

Convergence Angle	0	13	30.0368781
Scale Factor			0.999975201
Elevation Adjust. Factor			0.9999756603
Combined Adjust. Factor			0.9999508619

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	5	33.1445508
Longitude	91	36	47.9427876
Ellipsoid Height (M):	127.165		
Geoid Height (M):	-27.935		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 19.54 KM (12.14MI) TO THE STATION ON THE LEFT. THE STATION IS 38.75 METERS SOUTH OF A GRAVEL DRIVEWAY, 17.75 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.46 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670002 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	326	31.92	104.7
MK # 2	SOUTH END CMP	5	35.53	116.6
MK # 3	NONE			

AZ Mark Station	670002A
Geodetic Azimuth	10 23 42.253033
Grid Azimuth	10 10 12.224601

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point C 166

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670002A	3/19/1999	AHTD	SHARP	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	195,561.6479
Easting (M)	434,880.3570
Elevation (M)*	145.713
Northing (SFT)	641,605.1732
Easting (SFT)	1,426,769.9713
Elevation (SFT)*	478.060
Convergence Angle	0 13 31.4004765
Scale Factor	0.999975647
Elevation Adjust. Factor	0.9999771334
Combined Adjust. Factor	0.9999527810

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 5 43.5118992
Longitude	91 36 45.5994288
Ellipsoid Height (M):	117.774
Geoid Height (M):	-27.939

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 19.86 KM (12.34 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 2.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "670002A 1999" SET ON TOP OF AN IRON ROD 0.66 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER POST	6	14.20	46.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	670002
Geodetic Azimuth	190 23 43.63353
Grid Azimuth	190 10 12.22460

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670003	3/19/1999	AHTD	SHARP	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	199,183.2850	
Easting (M)	435,434.9940	
Elevation (M)*	191.661	
Northing (SFT)	653,487.1609	
Easting (SFT)	1,428,589.6428	
Elevation (SFT)*	628.808	

Convergence Angle	0	13	44.6393406
Scale Factor	0.999980883		
Elevation Adjust. Factor	0.9999699230		
Combined Adjust. Factor	0.9999508066		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	40.9418724
Longitude	91	36	22.8482964
Ellipsoid Height (M):	163.692		
Geoid Height (M):	-27.970		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 24.09 KM (14.97 MI) TO THE STATION OF THE LEFT. THE STATION IS 17.74 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670003 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	184	9.30	30.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	670003A
Geodetic Azimuth	170 25 47.39971
Grid Azimuth	170 12 02.77085

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point F 167

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670003A	3/19/1999	AHTD	SHARP	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	198,778.7409	
Easting (M)	435,504.8650	
Elevation (M)*	191.343	
Northing (SFT)	652,159.9191	
Easting (SFT)	1,428,818.8779	
Elevation (SFT)*	627.764	

Convergence Angle	0	13	46.2276417
Scale Factor			0.999980282
Elevation Adjust. Factor			0.9999699729
Combined Adjust. Factor			0.9999502555

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	27.8077332
Longitude	91	36	20.1187836
Ellipsoid Height (M):	163.375		
Geoid Height (M):	-27.968		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 24.51 KM (15.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 45.043 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 17.111 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.93 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "670003A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE R/W MARKER	171	23.65	77.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	670003
Geodetic Azimuth	350 25 49.00895
Grid Azimuth	350 12 02.77085

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point E 167

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670004	3/19/1999	AHTD	SHARP	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,894.2950	
Easting (M)	434,107.9980	
Elevation (M)*	239.240	
Northing (SFT)	675,504.8662	
Easting (SFT)	1,424,235.9901	
Elevation (SFT)*	784.907	

Convergence Angle	0	13	14.3594081
Scale Factor			0.999991461
Elevation Adjust. Factor			0.9999624569
Combined Adjust. Factor			0.9999539182

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	11	18.8412288
Longitude	91	37	14.8846908
Ellipsoid Height (M):	211.237		
Geoid Height (M):	-27.998		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 31.38 KM (19.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.78 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167, 29.00 METERS NORTH OF A GRAVEL DRIVEWAY AND 1.78 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670004 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END CMP	159	26.92	88.3
MK # 2	CORNER POST	190	11.04	36.2
MK # 3	GUY POLE	353	12.60	41.3

AZ Mark Station	670004A
Geodetic Azimuth	0 37 34.938096
Grid Azimuth	0 24 20.579526

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point Q 166

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670004A	3/19/1999	AHTD	SHARP	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	206,344.6080	
Easting (M)	434,111.1870	
Elevation (M)*	233.696	
Northing (SFT)	676,982.2681	
Easting (SFT)	1,424,246.4527	
Elevation (SFT)*	766.718	

Convergence Angle	0	13	14.4740732
Scale Factor	0.999992210		
Elevation Adjust. Factor	0.9999633268		
Combined Adjust. Factor	0.9999555371		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	11	33.4505184
Longitude	91	37	14.6876376
Ellipsoid Height (M):	205.685		
Geoid Height (M):	-28.003		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO NORTH ON U.S. HIGHWAY 167 FOR 31.83 KM (19.78 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 1.24 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "670004A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF CONCRETE HEADWALL	32	17.80	58.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	670004
Geodetic Azimuth	180 37 35.05444
Grid Azimuth	180 24 20.57953

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation by 3 Wire from NGS point Q 166

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670005	7/9/2003	AHTD	SHARP	62	012157,050064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	220,224.6367
Easting (M)	446,983.9970
Elevation (M)*	
Northing (SFT)	722,520.3289
Easting (SFT)	1,466,479.9968
Elevation (SFT)*	
Convergence Angle	0 18 16.0039462
Scale Factor	1.000017654
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:	Geoid09		
Latitude	36	19	1.8402420
Longitude	91	28	36.5052612
Ellipsoid Height (M):	79.827		
Geoid Height (M):	-28.402		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. STATE 412/63/62 IN HARDY, GO EAST ON HIGHWAY 412 FOR 0.6 MILES TO THE FORTY ISLAND CREEK BRIDGE LOG MILE 2.14, GO ACROSS THE BRIDGE AND TURN LEFT ON WOODLAWN HILL ROAD AND GO 0.15 MILES TO THE STATION ON THE RIGHT. 7.9 METERS EAST OF THE CENTERLINE OF WOODLAWN HILL ROAD AND 0.50 METERS WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "670005 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	19	1.8397668
Longitude	91	28	36.5059452
Ellipsoid Height:	79.912		
Grid Northing (Meters)	220,224.6220		
Grid Easting (Meters)	446,983.9800		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	15	14.80	48.6
MK # 2	GUY WIRE	2	14.50	47.6
MK # 3	10" CONC CULVERT			

AZ Mark Station	670005A
Geodetic Azimuth	14 37 51
Grid Azimuth	14 19 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	Q 313A
Ref Mon # 3	BUTLER

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670005A	7/9/2003	AHTD	SHARP	62	050064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	220,649.0641
Easting (M)	447,092.3770
Elevation (M)*	
Northing (SFT)	723,912.8045
Easting (SFT)	1,466,835.5735
Elevation (SFT)*	
Convergence Angle	0 18 18.5848292
Scale Factor	1.000018509
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 19 15.5906544
Longitude	91 28 32.0699856
Ellipsoid Height (M):	81.723
Geoid Height (M):	-28.290

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. STATE 412/63/62 IN HARDY, GO EAST ON HIGHWAY 412 FOR 0.6 MILES TO THE FORTY ISLAND CREEK BRIDGE LOG MILE 2.14, GO ACROSS THE BRIDGE AND TURN LEFT ON WOODLAWN HILL ROAD AND GO 0.40 MILES TO THE STATION ON THE LEFT. 17.0 METERS WEST OF THE CENTERLINE OF WOODLAWN HILL ROAD AND 16.0 METERS NORTH OF THE CENTERLINE OF ROBIN HOOD LANE AND 0.20 METERS EAST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "670005A 2003" ON TOP OF A 0.50 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF WOOD SIGN	205	4.70	15.4
MK # 2	8" HICKORY	355	10.20	33.5
MK # 3				

AZ Mark Station	670005
Geodetic Azimuth	194 37 53
Grid Azimuth	194 19 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	Q 313A
Ref Mon # 3	BUTLER

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670006	12/9/2003	AHTD	SHARP	62	050146

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,638.6210	
Easting (M)	439,534.4390	
Elevation (M)*	216.350	
Northing (SFT)	704,193.5424	
Easting (SFT)	1,442,039.2386	
Elevation (SFT)*	709.808	

Convergence Angle	0	15	21.6470942
Scale Factor	1.000006867		
Elevation Adjust. Factor	0.9999660488		
Combined Adjust. Factor	0.9999729155		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	16	1.8004872
Longitude	91	33	36.1394136
Ellipsoid Height (M):	188.166		
Geoid Height (M):	-28.168		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 62 AND 63, IN HARDY, GO SOUTHWESTERLY ON STATE HIGHWAY 62 FOR 7.28 MILES TO A PAVED ROAD ON THE RIGHT, (ALLEGHENY DRIVE). THURN RIGHT RIGHT AND GO NORTHERLY ON ALLEGHENY DRIVE FOR 0.71 MILES TO A T-JUNCTION. TURN LEFT AND GO WEST ON A PAVED ROAD FOR 0.08 MILES TO A GATE. PASS THROUGH THE GATE AND CONTINUE WEST ACROSS THE AIRPORT ENTRANCE ROAD FOR 125 FEET TO AN APRON. CONTINUE WEST ACROSS THE APRON FOR 0.07 MILES TO A RUNWAY AND TURN LEFT AND GO 0.24 MILES TO THE STATION ON THE LEFT, A 1 1/2" PLASTIC CAP ON TOP OF THE ORIGINAL SHAFT SET IN A PIECE OF 3X6 ROCK OUTCROP STAMPED "KITTLER PLS". THE STATION IS 30.1 METERS SOUTHEAST FROM THE RUNWAY CENTERLINE AND 0.9 METERS NORTWEST FROM A CARSONITE WINESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RUNWAY LIGHT	0	34.30	112.5
MK # 2				
MK # 3				

AZ Mark Station	CHERPORT AZ MK
Geodetic Azimuth	225 17 34
Grid Azimuth	225 02 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	Q 313
Ref Mon # 3	FAA 7M9 A

Comments

Elevation by 3 Wire from NGS point D 167

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670007	3/25/2008	AHTD	Sharp	62	050187

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	211,454.9130
Easting (M)	436,270.0870
Elevation (M)*	
Northing (SFT)	693,748.3271
Easting (SFT)	1,431,329.4438
Elevation (SFT)*	

Convergence Angle	0	14	5.2435967
Scale Factor	1.000001049		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	14	18.9662604
Longitude	91	35	47.4396576
Ellipsoid Height (M):	159.960		
Geoid Height (M):	-28.097		

Location Description

From the junction of U.S. highways 62/412 and 167 on the north side of Ash Flat, go north and east on hwy-62/412 for 0.36 miles to the station on the left at the top of a slope. 96.0 feet northwest of the center of the highway, 85.0 feet southwest of the center of an asphalt drive and 3.0 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "670007 2008" set on top of a 5/8 inch by 4.0 foot rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Right of Way monument	358	3.65	12.0
MK # 2	Combination pole	007	13.87	45.5
MK # 3	Power pole w/guy	240	16.76	55.0

AZ Mark Station	670007A
Geodetic Azimuth	224 07 51
Grid Azimuth	223 53 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARMH
Ref Mon # 3	ARPG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670007A	3/25/2008	AHTD	Sharp	167	050187

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,965.2320	
Easting (M)	435,798.9220	
Elevation (M)*		
Northing (SFT)	692,141.7653	
Easting (SFT)	1,429,783.6299	
Elevation (SFT)*		

Convergence Angle	0	13	54.2174627
Scale Factor	1.000000176		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	14	3.1418484
Longitude	91	36	6.3881892
Ellipsoid Height (M):	168.443		
Geoid Height (M):	-28.086		

Location Description

From the junction of U.S. highways 62/412 and 167 on the north side of Ash Flat, go south on hwy-167 for 0.20 miles to the station on the left. 43.0 feet southeast of the center of the highway, 59.0 feet southwest of the center of a gravel drive and 13.7 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "670007A 2008" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power Pole w/light	196	17.98	59.0
MK # 2	Power pole w/transformer	156	7.92	26.0
MK # 3	South end of 18in.cmp	034	16.00	52.5

AZ Mark Station	670007
Geodetic Azimuth	44 07 40
Grid Azimuth	43 53 46

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARMH
Ref Mon # 3	ARPG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670008	8/16/2010	AHTD	Sharp	230	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	178,529.5909
Easting (M)	441,380.5020
Elevation (M)*	189.737
Northing (SFT)	585,725.8328
Easting (SFT)	1,448,095.8636
Elevation (SFT)*	622.496

Convergence Angle	0	16	0.7618880
Scale Factor			0.999955338
Elevation Adjust. Factor			0.9999702249
Combined Adjust. Factor			0.9999255643

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	56	29.9981364	
Longitude	91	32	28.9202136	
Ellipsoid Height (M):	161.983			
Geoid Height (M):	-27.754			

Location Description

To reach the station from the junction of highways 167 and 230 in Cave City go east on hwy-230 for 0.40 miles to "East Masonic rd." and the station on the left. 36.0 feet north of hwy-230, 27.0 feet east of Masonic road and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "670008 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a triple box culvert	261	16.15	53.0
MK # 2	Combination pole	86	18.30	60.0
MK # 3	24 inch culvert	240	2.44	8.0

AZ Mark Station	670008A
Geodetic Azimuth	94 05 57
Grid Azimuth	93 49 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670008A	8/16/2010	AHTD	Sharp	230	050213

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	178,496.6409	
Easting (M)	441,872.4120	
Elevation (M)*	186.218	
Northing (SFT)	585,617.7294	
Easting (SFT)	1,449,709.7384	
Elevation (SFT)*	610.950	

Convergence Angle	0	16	12.1791553
Scale Factor	0.999955304		
Elevation Adjust. Factor	0.9999707772		
Combined Adjust. Factor	0.9999260825		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	56	28.8542616
Longitude	91	32	9.2995152
Ellipsoid Height (M):	158.459		
Geoid Height (M):	-27.759		

Location Description

To reach the station from the junction of highways 167 and 230 in Cave City go east on hwy-230 for 0.70 miles to the station on the right behind a guard rail. 26.0 feet south of hwy-230 and 5.70 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "670008A 2010" set on top of a 5/8 inch by 2.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	West end of a guard rail	266	23.77	78.0
MK # 2	Combination pole	230	26.52	87.0
MK # 3	Corner of bridge	64	5.18	17.0

AZ Mark Station	670008
Geodetic Azimuth	274 06 08
Grid Azimuth	273 49 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	MONA, MOWS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670009	9/14/2011	AHTD	sharp	63	012157,050265,050275

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	220,518.4565	
Easting (M)	447,138.4454	
Elevation (M)*	128.974	
Northing (SFT)	723,484.3027	
Easting (SFT)	1,466,986.7163	
Elevation (SFT)*	423.142	

Convergence Angle	0	18	19.6432623
Scale Factor	1.000018245		
Elevation Adjust. Factor	0.9999797602		
Combined Adjust. Factor	0.9999980048		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	36	19	11.3455704
Longitude	91	28	30.2510568
Ellipsoid Height (M):	100.563		
Geoid Height (M):	-28.405		

Location Description

Starting at the junction of the Hardy Bypass and 63. Go east .8 ofa mile to the station on the right just past the end of the bridge. The station is a standard alum cap stamped 670009 and is set on a 2 foot 5/8's rebar and is 2 foot north of a witness post. And as described above. Lat. 36.1911 Lon. 091.2830

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Edge of rock fill	275	15.25	50.0
MK # 2	S.E. corner of bridge	330	24.38	80.0
MK # 3	CL of 63	10	29.87	98.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevations est. by digital level by CLS from NGS BM's R313 and O1, during Job 012157.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670010	9/13/2011	AHTD	sharp	63	012157,050266,050275

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,609.7165	
Easting (M)	449,855.0987	
Elevation (M)*	116.295	
Northing (SFT)	717,222.0449	
Easting (SFT)	1,475,899.6030	
Elevation (SFT)*	381.544	

Convergence Angle	0	19	22.7648991
Scale Factor	1.000014405		
Elevation Adjust. Factor	0.9999817499		
Combined Adjust. Factor	0.9999961546		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	36	18	8.9394336	
Longitude	91	26	41.7758352	
Ellipsoid Height (M):	87.889			
Geoid Height (M):	-28.391			

Location Description

This station is In the North west Corner of the intersection of Highway 63 and 175. The station is a standerd alum. cap stamped (670010 2011) And is on a 5/8" rebar that one foot long. And is 2 foot south of a Witness post. And as described above. Lat. 36.1809 Lon. 091.2642

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Gravel Driveway	35	4.27	14.0
MK # 2	CL 175	120	17.37	57.0
MK # 3	Edge of sign	310	5.80	19.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670010A	9/13/2011	AHTD	sharp	63	012157,050266,050275

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,227.9469	
Easting (M)	450,312.5471	
Elevation (M)*	108.089	
Northing (SFT)	715,969.5225	
Easting (SFT)	1,477,400.4149	
Elevation (SFT)*	354.622	

Convergence Angle	0	19	33.3830364
Scale Factor	1.000013649		
Elevation Adjust. Factor	0.9999830376		
Combined Adjust. Factor	0.9999966864		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	36	17	56.4700956	
Longitude	91	26	23.5284504	
Ellipsoid Height (M):	79.681			
Geoid Height (M):	-28.388			

Location Description

Starting at the junction of highway 63 and 175 go east 0.35 miles to the station on the right. The station is a standard alum. cap (stamped 670010A 2011) And is on a 4 foot 5/8" rebar and is 12 foot north of a witness post and as described above. Lat. 36.1757 Lon. 091 2624

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Center of Head Wall stamped 1916 (under railway	175	9.75	32.0
MK # 2	closest rail	210	9.45	31.0
MK # 3	CL63	20	23.47	77.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670011	9/13/2011	AHTD	sharp	63	012157,050266

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	216,187.3038
Easting (M)	455,405.6744
Elevation (M)*	188.644
Northing (SFT)	709,274.5126
Easting (SFT)	1,494,110.1168
Elevation (SFT)*	618.908

Convergence Angle	0	21	31.8632930
Scale Factor	1.000009638		
Elevation Adjust. Factor	0.9999703965		
Combined Adjust. Factor	0.9999800343		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	16	49.2803652
Longitude	91	22	59.9188368
Ellipsoid Height (M):	160.264		
Geoid Height (M):	-28.373		

Location Description

Starting at the junction of highway 63 and 58west go west 0.6 miles to the station on the right. The station is a standard alum. cap (stamped 670011-2011) on a 5/8" rebar thats 4 foot long and is 2 foot south of a witness post. And as described above . Lat. 36.1649 Lon. 091.0059

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	concrete pipe under gravel drive	275	15.85	52.0
MK # 2	CL63	210	13.40	44.0
MK # 3	Old concrete sign base	35	7.32	24.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670011A	9/13/2011	AHTD	sharp	63	012157,050266

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	215,902.0714
Easting (M)	455,665.0634
Elevation (M)*	181.379
Northing (SFT)	708,338.7126
Easting (SFT)	1,494,961.1288
Elevation (SFT)*	595.076

Convergence Angle	0	21	37.8693160
Scale Factor	1.000009090		
Elevation Adjust. Factor	0.9999715365		
Combined Adjust. Factor	0.9999806262		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	16	39.9740376
Longitude	91	22	49.5974208
Ellipsoid Height (M):	153.005		
Geoid Height (M):	-28.370		

Location Description

Starting at the junction of highway 63 and 58 west go west 0.4 miles to the station on the left. The station is a standard alum. cap stamped (670011A 2011) and is on a 5/8" rebar that is 4 foot long and is 16 foot north of a witness post. And as dscribed above. Lat. 36.1640 Lon. 091.2250

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Coregated Metal Pipe	330	21.00	68.9
MK # 2	Concrete Pipe	120	25.60	84.0
MK # 3	Steel Pipe Fence	230	5.00	16.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BM C 317 BY CLS DURING JOB 050266 IN APRIL 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670012	9/13/2011	AHTD	sharp	63	012157,050266

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	215,552.6281
Easting (M)	459,102.8799
Elevation (M)*	119.974
Northing (SFT)	707,192.2474
Easting (SFT)	1,506,240.0318
Elevation (SFT)*	393.614

Convergence Angle	0	22	57.9676323
Scale Factor	1.000008384		
Elevation Adjust. Factor	0.9999811726		
Combined Adjust. Factor	0.9999895564		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	16	27.9139800
Longitude	91	20	31.9475904
Ellipsoid Height (M):	91.600		
Geoid Height (M):	-28.371		

Location Description

Starting at the junction of highway 63 and 58east go west approx. 150 feet to the station on the right. The station is a standard alum. cap (stamped 670012 2011) and is on a 5/8" rebar that is 2foot long. It is 36 foot off of the CL of 63 at an Az. of 180 and 24 foot south of a witness post. And as described above. Lat. 36.1628 Lon. 091.2033

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CL gravel drive	275	14.94	49.0
MK # 2	Coregated Metal Pipe	250	11.58	38.0
MK # 3	fence	0	7.45	24.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670012A	9/13/2011	AHTD	sharp	63	012157,050266

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	215,587.9901
Easting (M)	458,425.8684
Elevation (M)*	106.396
Northing (SFT)	707,308.2642
Easting (SFT)	1,504,018.8699
Elevation (SFT)*	349.069

Convergence Angle	0	22	42.1891996
Scale Factor			1.000008460
Elevation Adjust. Factor			0.9999833032
Combined Adjust. Factor			0.9999917631

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	36	16	29.2070820	
Longitude	91	20	59.0629992	
Ellipsoid Height (M):	78.029			
Geoid Height (M):	-28.372			

Location Description

Starting at the junction of highway 63 and 58east go west 0.45 miles to the station on the right. The station is a standard alum. cap (stamped 670012A 2011) and is on a 5/8" rebar thats 4 foot long and is 2 foot north of a witness post. And As described above. Lat. 36.1630 Lon. 091.2059

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Light pole	0	6.71	22.0
MK # 2	The western most driveway to the water wheel gas station	85	13.11	43.0
MK # 3	The eastern most driveway to the water wheel gas station	270	17.37	57.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BM W 316 BY CLS DURING JOB 050266 IN APRIL 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670013	9/14/2011	AHTD	sharp	63	012157,050266

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	215,531.3864
Easting (M)	462,335.7823
Elevation (M)*	172.518
Northing (SFT)	707,122.5569
Easting (SFT)	1,516,846.6458
Elevation (SFT)*	566.003

Convergence Angle	0	24	13.3359557
Scale Factor			1.000008302
Elevation Adjust. Factor			0.9999729270
Combined Adjust. Factor			0.9999812288

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	36	16	26.5050156
Longitude	91	18	22.4263044
Ellipsoid Height (M):	144.164		
Geoid Height (M):	-28.360		

Location Description

Starting at the junction of highway 63 and 90 at Raveden go west 4.2 miles to the station on the right. The station is a standard alum. cap (stamped 670013 2011) and is on a 4 foot 5/8" rebar. The station is 39 foot at an Az. of 230 off of the CL of 63 and 2 foot south of a witness post. And as described above. Lat. 36.1626 Lon. 091.1822

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	15	7.62	25.0
MK # 2	Extended CL of a gravel drive to a 1 1/2 story fra	205	9.45	31.0
MK # 3	CL63	230	11.89	39.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, & RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670013A	9/14/2011	AHTD	sharp	63	012157,050266

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	215,175.7704
Easting (M)	462,595.1524
Elevation (M)*	179.560
Northing (SFT)	705,955.8401
Easting (SFT)	1,517,697.5958
Elevation (SFT)*	589.108

Convergence Angle	0	24	19.3242165
Scale Factor	1.000007627		
Elevation Adjust. Factor	0.9999718219		
Combined Adjust. Factor	0.9999794487		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	36	16	14.9087568	
Longitude	91	18	12.1354128	
Ellipsoid Height (M):	151.203			
Geoid Height (M):	-28.355			

Location Description

Starting at the junction of highway 63 and 90 in Ravenden go west 3.9 miles to the staton on the left. The station is a standard alum. cap (stamped 670013A 2011) and is on a 4 foot 5/8" rebar. The station is 24 foot at an Az. of 45 and is 1 foot north of a witness post.And as described above. Lat. 361615 Lon. 091 1812

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" Coregated Metal Pipe	320	6.71	22.0
MK # 2	Light Pole	165	30.18	99.0
MK # 3	Corner of Rock on house	265	18.90	62.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL LEVELS WERE RAN FROM NGS BMs: S 316, T 316, & RAVEN AZ MK BY CLS DURING JOB 050266 IN APRIL 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670014	7/7/2013	AHTD	SHARP	63	050275

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	218,152.6248	
Easting (M)	453,862.8558	
Elevation (M)*	216.311	
Northing (SFT)	715,722.4032	
Easting (SFT)	1,489,048.3861	
Elevation (SFT)*	709.679	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	36	17	53.3481720	
Longitude	91	24	1.2577680	
Ellipsoid Height (M):	188.033			
Geoid Height (M):	-28.277			

Convergence Angle	0	20	56.1702225	
Scale Factor	1.000013460			
Elevation Adjust. Factor	0.9999660550			
Combined Adjust. Factor	0.9999795145			

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 63 AND HWY. 63B SOUTH OF HARDY. GO SOUTH ON HWY. 63 FOR 4.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. SOUTH OF WITNESS POST, AND 129 FT. NORTH OF CL OF HWY. 63. THE STATION IS A 2 1/2 IN. CAP STAMPED "670014 2013" SET ON A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	190	24.00	78.7
MK # 2	POWER POLE WITH LIGHT	164	28.30	92.8
MK # 3	TELEPHONE BOX	56	28.90	94.8

AZ Mark Station	670014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670014A	7/7/2013	AHTD	SHARP	63	050275

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	217,754.2111	
Easting (M)	454,190.9933	
Elevation (M)*	210.342	
Northing (SFT)	714,415.2743	
Easting (SFT)	1,490,124.9505	
Elevation (SFT)*	690.097	

Convergence Angle	0	21	3.7658076
Scale Factor			1.000012677
Elevation Adjust. Factor			0.9999669916
Combined Adjust. Factor			0.9999796682

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	36	17	40.3578960
Longitude	91	23	48.2046720
Ellipsoid Height (M):	182.056		
Geoid Height (M):	-28.274		

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 63 AND HWY. 63B SOUTH OF HARDY. GO SOUTH ON HWY. 63 FOR 4.6 MILES TO THE STATION ON THE LEFT. THE STATION IS 19 FT. SOUTHWEST OF WITNESS POST, AND 28 FT. SOUTHEAST OF CL OF MAYO ROAD. THE STATION IS A 2 1/2 IN. CAP STAMPED "670014A 2013" SET ON A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	65	6.20	20.3
MK # 2	SOUTHWEST CORNER OF 1 STORY FRAME HOME	108	20.00	65.6
MK # 3	30 " OAK TREE	347	19.00	62.3

AZ Mark Station	670014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation established from NGS BM R313, T313, V313, O1 by crew S5102 in July 2013 during Job 050275.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670015	12/4/2013	AHTD	SHARP	115	FA6713

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (1997)

Northing (M)	186,383.6115	
Easting (M)	454,207.1041	
Elevation (M)*	96.262	
Northing (SFT)	611,493.5654	
Easting (SFT)	1,490,177.8074	
Elevation (SFT)*	315.819	

Convergence Angle	0	20	59.6737533
Scale Factor			0.999963712
Elevation Adjust. Factor			0.9999848936
Combined Adjust. Factor			0.9999486062

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID96			
Latitude	36	0	42.5849400	
Longitude	91	23	55.2369120	
Ellipsoid Height (M):			68.281	
Geoid Height (M):			-27.976	

Location Description

TO REACH FROM THE JCT. OF HWY 167 AND 115 IN CAVE CITY. GO EAST ON HWY 115 FOR 11.1 MILES TO THE STATION ON THE LEFT. THE STATION IS 1 FT. SOUTH OF A WITNESS POST, AND 34.8 FT. NORTH OF THE CENTERLINE OF HWY 115. THE STATION MARK IS A 2 1/2 IN ALUMINIUM CAP STAMPED "670015 2013" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	68	8.80	28.9
MK # 2	NORTHWEST BRIDGE CORNER	45	25.40	83.3
MK # 3	GUY POLE	261	27.50	90.2

AZ Mark Station	670015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on digital levels from 670015A which was based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670015A	12/4/2013	AHTD	SHARP	115	FA6713

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (1997)

Northing (M)	186,090.1323	
Easting (M)	453,775.5811	
Elevation (M)*	118.473	
Northing (SFT)	610,530.7091	
Easting (SFT)	1,488,762.0523	
Elevation (SFT)*	388.690	

Convergence Angle	0	20	49.6048781	
Scale Factor	0.999963372			
Elevation Adjust. Factor	0.9999814081			
Combined Adjust. Factor	0.9999447808			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID96			
Latitude	36	0	33.1481880	
Longitude	91	24	12.5403840	
Ellipsoid Height (M):	90.502			
Geoid Height (M):	-27.970			

Location Description

TO REACH FROM THE JCT. OF HWY 167 AND 115 IN CAVE CITY. GO EAST ON HWY 115 FOR 10.8 MILES TO THE STATION ON THE LEFT. THE STATION IS 12 FT. SOUTH OF A WITNESS POST, AND 25.3 FT. NORTH OF THE CENTERLINE OF HWY 115. THE STATION MARK IS A 2 1/2 IN. ALUMINIUM CAP STAMPED "670015A 2013" SET ONTOP OF A 5/8 IN BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" CMP	45	54.80	179.8
MK # 2	POWER POLE	132	23.00	75.5
MK # 3				

AZ Mark Station	670015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on static observation from BMs A167, V165, O2 during job FA6713 by crew s5102 in December 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670016	4/3/2024	ARDOT	SHARP	56	05X316, 050517

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,529.0912	0.0010
Easting (M)	429,669.9152	0.0010
Elevation (M)*		

Northing (SFT)	677,587.5267	
Easting (SFT)	1,409,675.3801	
Elevation (SFT)*		

Convergence Angle	0	11	31.0488875
Scale Factor			0.999992545
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 18		
Latitude	36	11	39.9546528
Longitude	91	40	12.4249476
Ellipsoid Height (M):	168.572		0.0200
Geoid Height (M):	-28.085		0.0200

Location Description

To reach from the intersection of Hwy. 56 and Hwy. 167 in Ash Flat, go West on Hwy. 56 for 4.3 miles to County Line Rd. Go North on County Line Rd for 0.25 miles to the station on the Right/East. The station is 13.6 ft. East of the center of County Line Rd., and 2.8 ft. West of a barbwire fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "670016 2024" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF METAL GATE	195	12.10	39.7
MK # 2				
MK # 3				

AZ Mark Station	670016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARPG ARM3

Comments

STATIC DERIVED ELEV. 645.1979 IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB & ARPG

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
670016A	4/3/2024	ARDOT	SHARP	56	05X316, 050517

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,942.1377	0.0010
Easting (M)	429,649.1422	0.0010
Elevation (M)*		
Northing (SFT)	678,942.6634	
Easting (SFT)	1,409,607.2274	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	36	11	53.3575428	
Longitude	91	40	13.2010536	
Ellipsoid Height (M):	161.648			0.0200
Geoid Height (M):	-28.088			0.0200

Convergence Angle	0	11	30.5972721
Scale Factor	0.999993239		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the intersection of Hwy. 56 and Hwy. 167 in Ash Flat, go West on Hwy. 56 for 4.3 miles to County Line Rd. Go North on County Line Rd for 0.5 miles to the station on the Left/West. The station is 15.5 ft. West of the center of County Line Road and 2.2 ft. East of a barbwire fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "670016A 2024" set on top of a 5/8 in. by 4 ft. rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF METAL GATE	153	21.50	70.5
MK # 2	18" OAK	336	18.30	60.0
MK # 3				

AZ Mark Station	670016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARPG ARM3

Comments

ELEV. OF 622.4859 US FT BASED ON DIGITAL LEVELS FROM STATIC DERIVED ELEV. ON GPS #670016. THE STATIC DERIVED ELEV. OF 622.4925 IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARJB & ARPG.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680001 RESET	3/8/1995	AHTD	ST. FRANCIS	40	11884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	78,667.4901
Easting (M)	510,388.5610
Elevation (M)*	87.483
Northing (SFT)	258,094.9238
Easting (SFT)	1,674,499.8039
Elevation (SFT)*	287.017
Convergence Angle	0 42 14.3743768
Scale Factor	0.999981355
Elevation Adjust. Factor	0.9999862713
Combined Adjust. Factor	0.9999676265

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 2 10.7063988
Longitude	90 47 24.6499836
Ellipsoid Height (M):	59.599
Geoid Height (M):	-27.754

Location Description

AT THE JCT. OF I-40 AND HWY. 1 IN FORREST CITY, THE STATION IS ON I-40 NEAR THE WEST END OF THE OVERPASS IN THE CENTER OF THE MEDIAN, 4.75 METERS NORTH OF THE EDGE OF THE EASTBOUND LANE, 13.70 METERS SOUTH OF THE EDGE OF THE WESTBOUND LANE AND 2.0 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92680001 1995 RESET" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.10 METERS BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH HOLE IN TOP OF BRIDGE END	33	17.70	58.1
MK # 2	PUNCH HOLE IN TOP OF BRIDGE END	97	9.40	30.8
MK # 3	PUNCH HOLE IN TOP OF WINGWALL	155	3.10	10.2

AZ Mark Station	92680001A AZ MK.
Geodetic Azimuth	257 56 32.51505
Grid Azimuth	257 14 18.31311

Area Reference Monuments (used for Processing)

Ref Mon # 1	GIL 1986
Ref Mon # 2	MORGAN 1954
Ref Mon # 3	NONE

Comments

(OLD PN = 92680001 RESET) ELEVATION BY 3-WIRE USING ELEVATION FROM USGS BENCH MARK NO. P-15 1932. EDM DISTANCE FROM THIS STATION TO 92680001A (SET ON JOB R10015) IS 1143.962 FEET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680001A	5/28/1992	AHTD	ST. FRANCIS	40	11884, R10015

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	78,414.8001
Easting (M)	509,272.8800
Elevation (M)*	82.859
Northing (SFT)	257,265.8900
Easting (SFT)	1,670,839.4405
Elevation (SFT)*	271.847

Convergence Angle	0	41	48.6918089
Scale Factor			0.999981712
Elevation Adjust. Factor			0.9999869969
Combined Adjust. Factor			0.9999687091

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	2	2.9497416
Longitude	90	48	8.7857568
Ellipsoid Height (M):	55.044		
Geoid Height (M):	-27.709		

Location Description

FROM THE JCT. OF I-40 AND HWY. 1 IN FORREST CITY, GO WEST ON I-40 0.72 MILES TO THE STATION BY THE EAST END OF THE MO-PAC R/R OVERPASS. THE STATION IS 13 FEET SOUTH OF THE WESTBOUND LANE, 46 FEET NORTH OF THE EASTBOUND LANE AND 6 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH HOLE IN TOP OF WINGWALL	190	15.11	49.6
MK # 2	PUNCH HOLE IN TOP OF WINGWALL	259	8.40	27.6
MK # 3	PUNCH HOLE IN END OF WINGWALL	337	2.35	7.7

AZ Mark Station	92680001
Geodetic Azimuth	77 42 40.98088
Grid Azimuth	77 00 52.46170

Area Reference Monuments (used for Processing)

Ref Mon # 1	GIL
Ref Mon # 2	MORGAN
Ref Mon # 3	NONE

Comments

OLD PN = 92680001A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680002	5/28/1992	AHTD	ST. FRANCIS	1	11884, R10015

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	83,647.0891	
Easting (M)	507,954.3720	
Elevation (M)*	73.377	
Northing (SFT)	274,432.1582	
Easting (SFT)	1,666,513.6355	
Elevation (SFT)*	240.738	

Convergence Angle	0	41	19.8685149
Scale Factor	0.999974185		
Elevation Adjust. Factor	0.9999884849		
Combined Adjust. Factor	0.9999626702		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	53.2435980
Longitude	90	48	58.3189020
Ellipsoid Height (M):	45.555		
Geoid Height (M):	-27.745		

Location Description

FROM THE POST OFFICE IN CALDWELL, GO NORTH ON HWY. 1 0.60 MILES TO THE STATION ON THE RIGHT. THE STATION IS 82 FEET EAST OF THE CENTERLINE OF HWY. 1 AND 2 FEET WEST OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	350	6.38	20.9
MK # 2	NBC IN POWER POLE	312	50.74	166.5
MK # 3	PUNCH POINT IN TOP OF FIRE HYDRANT	198	67.51	221.5

AZ Mark Station	92680002A AZ. MK.
Geodetic Azimuth	21 35 12.94121
Grid Azimuth	20 53 53.11909

Area Reference Monuments (used for Processing)

Ref Mon # 1	GIL
Ref Mon # 2	MORGAN
Ref Mon # 3	NONE

Comments

OLD PN = 92680002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680002A RESET	3/8/1995	AHTD	ST. FRANCIS	1	11884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	84,486.5081	
Easting (M)	508,279.8300	
Elevation (M)*	80.613	
Northing (SFT)	277,186.1520	
Easting (SFT)	1,667,581.4089	
Elevation (SFT)*	264.478	

Convergence Angle	0	41	27.5765719
Scale Factor	0.999973049		
Elevation Adjust. Factor	0.9999873494		
Combined Adjust. Factor	0.9999603987		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	20.3537724
Longitude	90	48	45.0725220
Ellipsoid Height (M):	52.818		
Geoid Height (M):	-27.718		

Location Description

FROM THE POST OFFICE IN CALDWELL, GO NORTH ON HWY. 1 FOR 1.18 MILES TO THE STATION ON THE RIGHT. THE STATION IS 22.90 METERS EAST OF THE CENTERLINE OF HWY. 1, 9.50 METERS SOUTH OF A DRIVEWAY AND 0.61 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "92680002A 1995 RESET" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	170	4.90	16.1
MK # 2	NBC IN 6" LOCUST	85	27.00	88.6
MK # 3	30" METAL PIPE	315	7.70	25.3

AZ Mark Station	92680002
Geodetic Azimuth	201 52 59.42777
Grid Azimuth	201 11 31.89815

Area Reference Monuments (used for Processing)

Ref Mon # 1	GIL 1986
Ref Mon # 2	MORGAN 1954
Ref Mon # 3	NONE

Comments

S.A.F. FOR JOB NO. R10015 = 0.999965545 (OLD PN = 92680002A RESET) ELEVATION FOR WAS ARRIVED BY PRECISE METHODS FROM USGS BENCH MARK NO. P-15 1932. EDM DISTANCE FROM THIS STATION TO 92680002A (SET ON JOB R10015) IS 900.326 FEET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680003A	5/28/1992	AHTD	ST. FRANCIS	1	R10071, R10015

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	90,194.4301
Easting (M)	508,787.2860
Elevation (M)*	77.174
Northing (SFT)	295,912.8928
Easting (SFT)	1,669,246.2875
Elevation (SFT)*	253.194

Convergence Angle	0	41	40.8233251
Scale Factor	0.999965752		
Elevation Adjust. Factor	0.9999878891		
Combined Adjust. Factor	0.9999536415		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	25.3642416
Longitude	90	48	22.3078320
Ellipsoid Height (M):	50.190		
Geoid Height (M):	-26.963		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 306, LOCATED IN COLT, GO NORTH ON STATE HIGHWAY 1 FOR 1.09 KM (0.68 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.288 METERS EAST OF THE CENTER OF STATE HIGHEWAY 1, 23.77 METERS SOUTH OF THE CENTER OF THE ENTRANCE TO A SALAVAGE YARD AND 0.61 METERS WEST OF A WITNESS POST. THE SHOT DISTANCE IS 719.381METERS. THIS STATION WAS UPDATED 0N 3/6/00.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN LIGHT POLE	43	18.82	61.8
MK # 2	NBD IN COMBINATION POLE	285	40.44	132.7
MK # 3	NONE			

AZ Mark Station	680008
Geodetic Azimuth	215 14 47.20104
Grid Azimuth	214 33 06.42971

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	MEM2

Comments

3 WIRE LEVEL FROM NGS PT H 175 OLD PN = 92680003A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680004	3/8/1995	AHTD	ST. FRANCIS	1	11884,110702

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	68,474.1737	0.0020
Easting (M)	510,450.1926	0.0020
Elevation (M)*	69.075	

Northing (SFT)	224,652.3515	
Easting (SFT)	1,674,702.0069	
Elevation (SFT)*	226.624	

Convergence Angle	0	42	12.9155492
Scale Factor			0.999997842
Elevation Adjust. Factor			0.9999891600
Combined Adjust. Factor			0.9999870020

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	56	39.9405696
Longitude	90	47	27.1547952
Ellipsoid Height:			41.247
Grid Northing (Meters)			68,474.4501
Grid Easting (Meters)			510,450.2450

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	56	39.9316236	
Longitude	90	47	27.1569948	
Ellipsoid Height (M):			42.224	0.0090
Geoid Height (M):			-26.885	

Location Description

FROM THE JCT. OF HWY. 1 AND HWY. 70 IN THE TOWN OF FORREST CITY, GO SOUTH ON HWY. 1 FOR 7.75 KM (4.82 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.80 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANES OF HWY. 1, 6.90 METERS EAST OF THE EASTERNMOST RAIL OF THE MISSOURI PACIFIC RAILROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "680004 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	680004A
Geodetic Azimuth	180 35 56.61297
Grid Azimuth	179 53 43.69711

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ZME1
Ref Mon # 3	ARJB

Comments

Updated br crew S5102 in 11/2018 during job 110702.by constraining elevation on ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680004A	3/8/1995	AHTD	ST. FRANCIS	1	11884,110702

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	67,954.7138	0.0020
Easting (M)	510,451.1427	0.0020
Elevation (M)*	68.913	
Northing (SFT)	222,948.0902	
Easting (SFT)	1,674,705.1240	
Elevation (SFT)*	226.092	

Convergence Angle	0	42	12.7910656	
Scale Factor	0.999998750			
Elevation Adjust. Factor	0.9999891854			
Combined Adjust. Factor	0.9999879354			

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)			
Latitude	34	56	23.0846676	
Longitude	90	47	27.3688116	
Ellipsoid Height:	41.077			
Grid Northing (Meters)	67,954.9830			
Grid Easting (Meters)	510,451.1930			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	34	56	23.0759520	
Longitude	90	47	27.3709212	
Ellipsoid Height (M):	42.065			0.0090
Geoid Height (M):	-26.883			

Location Description

FROM THE JCT. OF HWY. 1 AND HWY. 70 IN THE TOWN OF FORREST CITY, GO SOUTH ON HWY. 1 FOR 8.272 KM (5.14 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 16.50 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANES OF HWY. 1, 7.10 METERS EAST OF THE EASTERN MOST RAIL OF THE MISSOURI PACIFIC RAILROAD AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "680004A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	680004
Geodetic Azimuth	0 35 56.490382
Grid Azimuth	359 53 43.69711

Area Reference Monuments (used for Processing)

Ref Mon # 1	AEWY
Ref Mon # 2	ZME1
Ref Mon # 3	ARJB

Comments

Updated br crew S5102 in 11/2018 during job 110702.by constraining elevation on ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680005	3/8/1995	AHTD	ST. FRANCIS	70	11884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	74,115.4831	
Easting (M)	508,413.9910	
Elevation (M)*	67.626	
Northing (SFT)	243,160.5475	
Easting (SFT)	1,668,021.5688	
Elevation (SFT)*	221.870	

Convergence Angle	0	41	27.7848950
Scale Factor	0.999988364		
Elevation Adjust. Factor	0.9999893874		
Combined Adjust. Factor	0.9999777515		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	59	43.7837856
Longitude	90	48	44.7145164
Ellipsoid Height (M):	39.931		
Geoid Height (M):	-27.695		

Location Description

FROM THE JCT. OF HWY. 70 AND HWY. 1 IN THE TOWN OF FORREST CITY, GO WEST ON HWY. 70 FOR 3.347 KM (2.08 MILES) TO THE STATION ON THE LEFT AND SOUTHWEST OF THE JCT. OF STEWART STREET AND HWY. 70. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF HWY. 70, 12.30 METERS WEST OF THE CENTER OF STEWART STREET AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "680005 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	45	2.65	8.7
MK # 2	24" CONCRETE PIPE	35	6.70	22.0
MK # 3	NONE			

AZ Mark Station	680005A
Geodetic Azimuth	01 54 27.99572
Grid Azimuth	01 13 00.20843

Area Reference Monuments (used for Processing)

Ref Mon # 1	GIL 1986
Ref Mon # 2	MORGAN 1954
Ref Mon # 3	NONE

Comments

THE ELEVATION AT THE STATION WAS ARRIVED AT BY PRECISE METHODS USING ELEVATION FROM USGS BENCH MARK NO. X-169 1956.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680005A	3/8/1995	AHTD	ST. FRANCIS	N/A	11884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	74,549.5441	
Easting (M)	508,423.2100	
Elevation (M)*	68.523	
Northing (SFT)	244,584.6293	
Easting (SFT)	1,668,051.8148	
Elevation (SFT)*	224.813	

Convergence Angle	0	41	28.1165664
Scale Factor	0.999987671		
Elevation Adjust. Factor	0.9999892466		
Combined Adjust. Factor	0.9999769178		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	59	57.8645232
Longitude	90	48	44.1445356
Ellipsoid Height (M):	40.825		
Geoid Height (M):	-27.688		

Location Description

FROM THE JCT. OF HWY. 70 AND HWY. 1 IN THE TOWN OF FORREST CITY, GO WEST ON HWY. 70 FOR 3.347 KM (2.08 MILES) TO THE JCT. OF STEWART STREET AND HWY. 70, TURN RIGHT AND NORTH ON STEWART STREET AND GO 0.40 KM (0.25 MILES) TO THE STATION IN THE CENTER OF THE ROAD AND ON TOP OF THE LEVEE. THE STATION IS 0.70 METERS SOUTH OF THE NORTH EDGE OF THE TOP OF THE LEVEE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "680005A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	16" ELM TREE	160	18.20	59.7
MK # 2	30" METAL PIPE (DROP INLET)	155	9.40	30.8
MK # 3	30" METAL PIPE (DROP INLET)	205	12.70	41.7

AZ Mark Station	680005
Geodetic Azimuth	181 54 28.32263
Grid Azimuth	181 13 00.20843

Area Reference Monuments (used for Processing)

Ref Mon # 1	GIL 1986
Ref Mon # 2	MORGAN 1954
Ref Mon # 3	NONE

Comments

THE ELEVATION AT THE STATION WAS ARRIVED AT BY PRECISE METHODS USING ELEVATION FROM USGS BENCH MARK NO. X-169 1956.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680006	4/28/1998	AHTD	ST. FRANCIS	38	R10010

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,311.9841	
Easting (M)	538,336.8770	
Elevation (M)*	62.124	
Northing (SFT)	227,401.0678	
Easting (SFT)	1,766,193.5706	
Elevation (SFT)*	203.818	

Convergence Angle	0	52	52.6359207
Scale Factor			0.999997057
Elevation Adjust. Factor			0.9999902508
Combined Adjust. Factor			0.9999873078

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	56	54.6007956
Longitude	90	29	7.7905572
Ellipsoid Height (M):	35.195		
Geoid Height (M):	-26.881		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND U.S. HIGHWAY 79, LOCATED ON THE WEST SIDE OF HUGHES, GO WEST ON STATE HIGHWAY 38 FOR 0.27 KM (0.17 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.452 METERS EAST OF THE CENTER OF A GRAVEL ENTRANCE TO THE HIGH SCHOOL FOOTBALL FIELD, 13.421 METERS NORTH OF THE CENTER OF STATE HIGHWAY 38 AND 1.22 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "680006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER POST	15	1.43	4.7
MK # 2	TELEPHONE JUNCTION BOX	267	43.29	142.0
MK # 3	CORNER POST OF A CHAIN LINK FENCE	322	44.28	145.3

AZ Mark Station	680006A
Geodetic Azimuth	271 05 29.20603
Grid Azimuth	270 12 36.66506

Area Reference Monuments (used for Processing)

Ref Mon # 1	DAWSEY
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680006A	4/28/1998	AHTD	ST. FRANCIS	38	R10010

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	69,313.9361	
Easting (M)	537,804.8950	
Elevation (M)*	61.450	
Northing (SFT)	227,407.4720	
Easting (SFT)	1,764,448.2263	
Elevation (SFT)*	201.607	

Convergence Angle	0	52	40.4379747
Scale Factor	0.999997039		
Elevation Adjust. Factor	0.9999903566		
Combined Adjust. Factor	0.9999873956		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	56	54.9291372
Longitude	90	29	28.7528604
Ellipsoid Height (M):	34.595		
Geoid Height (M):	-26.877		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND U.S. HIGHWAY 79, LOCATED ON THE WEST SIDE OF HUGHES, GO WEST ON STATE HIGHWAY 38 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT NEAR THE TOP OF THE LEVEE OF A FISH POND. THE STATION IS 32.448 METERS EAST OF THE CENTER OF A GRAVEL DRIVE WAY, 15.179 METERS NORTH OF THE CENTER OF STATE HIGHWAY 38, 5.199 METER SOUTH OF THE CENTER OF A DIRT ROAD ON TOP OF A LEVEE AND 2.00 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "680006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	221	37.51	123.1
MK # 2	TELEPHONE JUNCTION BOX	263	38.91	127.7
MK # 3	POWER POLE	323	46.73	153.3

AZ Mark Station	680006
Geodetic Azimuth	91 05 17.19797
Grid Azimuth	90 12 36.66506

Area Reference Monuments (used for Processing)

Ref Mon # 1	DAWSEY
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680007	4/28/1998	AHTD	ST. FRANCIS	38	R10010

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	67,063.1321	
Easting (M)	543,267.2520	
Elevation (M)*	61.522	
Northing (SFT)	220,022.9592	
Easting (SFT)	1,782,369.3093	
Elevation (SFT)*	201.843	

Convergence Angle	0	54	44.8696922
Scale Factor	1.000001149		
Elevation Adjust. Factor	0.9999903453		
Combined Adjust. Factor	0.9999914943		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	55	39.1297980
Longitude	90	25	54.9155964
Ellipsoid Height (M):	34.511		
Geoid Height (M):	-26.927		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND U.S. HIGHWAY 79, LOCATED ON THE WEST SIDE OF HUGHES, GO EAST ON STATE HIGHWAY 38 FOR 6.60 KM (4.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.50 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 38 AND 1.87 METERS NORTH OF A WITNESS POST. THE THE STATION MARK IS A STANDARD 64mm CAP STAMPED "680007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS RISER	160	1.95	6.4
MK # 2	TELEPHONE JUNCTION BOX	285	21.70	71.2
MK # 3	COMBINATION POLE = TBM 920	7	24.80	81.4

AZ Mark Station	680007A
Geodetic Azimuth	109 34 52.65001
Grid Azimuth	108 40 07.70160

Area Reference Monuments (used for Processing)

Ref Mon # 1	DAWSEY
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680007A	4/28/1998	AHTD	ST. FRANCIS	38	R10010

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	66,918.2010	
Easting (M)	543,696.2010	
Elevation (M)*	60.927	
Northing (SFT)	219,547.4644	
Easting (SFT)	1,783,776.6194	
Elevation (SFT)*	199.891	

Convergence Angle	0	54	54.6500057
Scale Factor	1.000001420		
Elevation Adjust. Factor	0.9999904387		
Combined Adjust. Factor	0.9999918586		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	55	34.2053652
Longitude	90	25	38.1080208
Ellipsoid Height (M):	33.891		
Geoid Height (M):	-26.932		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 38 AND U.S. HIGHWAY 79, LOCATED ON THE WEST SIDE OF HUGHES, GO EAST ON STATE HIGHWAY 38 FOR 7.05 KM (4.38 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.15 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 38 AND 2.36 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "680007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	104	22.78	74.8
MK # 2	GAS METER	181	2.31	7.6
MK # 3	GUY POLE = TBM 921	319	45.96	150.8

AZ Mark Station	680007
Geodetic Azimuth	289 35 02.27286
Grid Azimuth	288 40 07.70160

Area Reference Monuments (used for Processing)

Ref Mon # 1	DAWSEY
Ref Mon # 2	BRINKLEYPORT
Ref Mon # 3	H 349

Comments

ELEVATION BY 3 WIRE FROM NGS POINT K 251

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680008	3/6/2000	AHTD	ST. FRANCIS	1	R10071

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	89,601.9581	
Easting (M)	508,379.3030	
Elevation (M)*	78.863	
Northing (SFT)	293,969.0909	
Easting (SFT)	1,667,907.7633	
Elevation (SFT)*	258.736	

Convergence Angle	0	41	31.2809515
Scale Factor	0.999966467		
Elevation Adjust. Factor	0.9999876240		
Combined Adjust. Factor	0.9999540914		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	6.3000384
Longitude	90	48	38.7065052
Ellipsoid Height (M):	51.893		
Geoid Height (M):	-26.956		

Location Description

TO REACH THE STATION FROM THE JCT OF HWY. 1 AND HWY. 306 IN COLT, GO NORTH ON HWY. 1 FOR 0.37 KM (0.23 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.70 METERS WEST OF THE CENTERLINE OF HWY. 1 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "680008 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 719.381 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER OF HEADWALL	252	9.60	31.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	92680003A
Geodetic Azimuth	35 14 37.762868
Grid Azimuth	34 33 06.429713

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	MEM2

Comments

3 WIRE LEVEL FROM NGS PT H 175

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680009	12/12/2000	AHTD	ST. FRANCIS	70	110388

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	86,893.9791	
Easting (M)	529,866.9690	
Elevation (M)*		
Northing (SFT)	285,084.6631	
Easting (SFT)	1,738,405.2141	
Elevation (SFT)*		

Convergence Angle	0	49	44.2473926
Scale Factor	0.999970242		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	6	29.1785544
Longitude	90	34	31.5382980
Ellipsoid Height (M):	34.673		
Geoid Height (M):	-26.958		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 75 SOUTH LOCATED IN HICKS STATION, GO EAST ON U.S. HIGHWAY 70 FOR 3.669 KM (2.28 MI) TO THE STATION ON THE LEFT. THE STATION IS 30.30 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 70, 5.25 METERS EAST OF THE CENTER OF ST. FRANCIS COUNTY ROAD 447, AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680009 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 578.299 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	164	12.60	41.3
MK # 2				
MK # 3				

AZ Mark Station	680009A
Geodetic Azimuth	70 48 02
Grid Azimuth	69 58 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	680006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680009A	12/12/2000	AHTD	ST. FRANCIS	70	110388

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	87,092.0291
Easting (M)	530,410.2720
Elevation (M)*	
Northing (SFT)	285,734.4321
Easting (SFT)	1,740,187.7007
Elevation (SFT)*	
Convergence Angle	0 49 56.7964604
Scale Factor	0.999969995
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 6 35.3490372
Longitude	90 34 9.9725880
Ellipsoid Height (M):	34.056
Geoid Height (M):	-26.962

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 70 AND STATE HIGHWAY 75 SOUTH LOCATED IN HICKS STATION, GO EAST ON U.S. HIGHWAY 70 FOR 4.216 KM (2.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.90 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 70 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680009A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 578.299 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	EAST END OF A CONCRETE HEADWALL	238	11.15	36.6
MK # 2				
MK # 3				

AZ Mark Station	680009
Geodetic Azimuth	250 48 15
Grid Azimuth	249 58 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	680006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680010	12/12/2000	AHTD	ST. FRANCIS	50	110390

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	76,490.7261	
Easting (M)	525,078.9310	
Elevation (M)*	60.538	
Northing (SFT)	250,953.3239	
Easting (SFT)	1,722,696.4595	
Elevation (SFT)*	198.615	

Convergence Angle	0	47	50.9091581
Scale Factor	0.999984960		
Elevation Adjust. Factor	0.9999904997		
Combined Adjust. Factor	0.9999754598		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	0	53.8299900
Longitude	90	37	46.3112904
Ellipsoid Height (M):	33.688		
Geoid Height (M):	-26.845		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 75, 38, AND 50 LOCATED ABOUT 14.484 KM (9.00 MI) EAST OF FORREST CITY, GO WEST ON HIGHWAY 50 FOR 0.402 KM (0.25 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.10 METERS SOUTH OF THE CENTER OF HIGHWAY 50 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680010 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 362.160 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION FROM U.S. ARMY C.O.E. BENCH MARK N 12 87 7V BY 3 WIRE LEVEL RUN BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW CORNER BURNT CANE BAPTIST CHUR CH	145	24.60	80.7
MK # 2				
MK # 3				

AZ Mark Station	680010A
Geodetic Azimuth	277 04 11
Grid Azimuth	276 16 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	680006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680010A	12/12/2000	AHTD	ST. FRANCIS	50	110390

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	76,530.2931	
Easting (M)	524,718.9440	
Elevation (M)*	61.733	
Northing (SFT)	251,083.1366	
Easting (SFT)	1,721,515.4021	
Elevation (SFT)*	202.536	

Convergence Angle	0	47	42.6601221
Scale Factor	0.999984891		
Elevation Adjust. Factor	0.9999903122		
Combined Adjust. Factor	0.9999752033		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	0	55.2761748
Longitude	90	38	0.4873488
Ellipsoid Height (M):	34.888		
Geoid Height (M):	-26.845		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 75, 38, AND 50 LOCATED ABOUT 14.484 KM (9.00 MI) EAST OF FORREST CITY, GO WEST ON HIGHWAY 50 FOR 0.756 KM (0.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.05 METERS NORTH OF THE CENTER OF HIGHWAY 50 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "680010A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 362.160 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION FROM U.S. ARMY C.O.E. BENCH MARK N 12 87 7V BY 3 WIRE LEVEL RUN BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	U.S. ARMY C.O.E. BENCH MARK N 1287 7V	122	29.45	96.6
MK # 2	.26 DIAMETER PINE TREE	176	31.40	103.0
MK # 3				

AZ Mark Station	680010
Geodetic Azimuth	277 04 11
Grid Azimuth	276 16 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	DAWSEY
Ref Mon # 3	680006

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680011	6/29/2010	AHTD	ST. FRANCIS	261	110543

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	72,189.9140
Easting (M)	500,261.1660
Elevation (M)*	64.257
Northing (SFT)	236,843.0762
Easting (SFT)	1,641,273.5088
Elevation (SFT)*	210.816

Convergence Angle	0	38	20.2247471
Scale Factor	0.999991341		
Elevation Adjust. Factor	0.9999899161		
Combined Adjust. Factor	0.9999812572		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	58	44.3734284
Longitude	90	54	7.0386768
Ellipsoid Height (M):	37.478		
Geoid Height (M):	-26.784		

Location Description

To reach the station from the junction of highway 261 and the Union Pacific railroad crossing in Palestine go north on hwy-261 for 0.35 miles to the station on the right in front of the Twin assembly of god church. 52.0 feet east of the center of hwy-261, 42 feet south of a paved driveway and 19.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "680011 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	North west corner of a church sign	86	0.60	2.0
MK # 2	Combination pole	268	6.09	20.0
MK # 3	South end of a 18 inch culvert	309	13.56	44.5

AZ Mark Station	680011A
Geodetic Azimuth	330 11 23
Grid Azimuth	329 33 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARLR
Ref Mon # 3	TN45

Comments

Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680011A	6/29/2010	AHTD	ST. FRANCIS	261	110543

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	72,536.0241
Easting (M)	500,057.7050
Elevation (M)*	64.915
Northing (SFT)	237,978.6057
Easting (SFT)	1,640,605.9872
Elevation (SFT)*	212.974

Convergence Angle	0	38	15.6456370
Scale Factor			0.999990768
Elevation Adjust. Factor			0.9999898129
Combined Adjust. Factor			0.9999805810

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	58	55.6776264	
Longitude	90	54	14.9079276	
Ellipsoid Height (M):	38.123			
Geoid Height (M):	-26.787			

Location Description

To reach the station from the junction of highway 261 and the Union Pacific railroad crossing in Palestine go north on hwy-261 for 0.60 miles to the station on the left. 40 feet north of a driveway to an old gas station and café, 30 feet west of the center of hwy-261 and 1.50 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "680011A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Light pole with arm	347	7.62	25.0
MK # 2	Concrete right of way marker	251	9.14	30.0
MK # 3	Northeast corner of a cafe	193	35.97	118.0

AZ Mark Station	680011
Geodetic Azimuth	150 11 19
Grid Azimuth	149 33 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARLR
Ref Mon # 3	TN45

Comments

Digital levels were ran by crew s5103 from NGS BM S 169 & R 169 in July 2010 during JOB 110543.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680012	6/16/2010	AHTD	ST. FRANCIS	38	110543

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	80,303.7181	
Easting (M)	519,542.4800	
Elevation (M)*	61.524	
Northing (SFT)	263,463.1151	
Easting (SFT)	1,704,532.2865	
Elevation (SFT)*	201.849	

Convergence Angle	0	45	45.0122091
Scale Factor	0.999979116		
Elevation Adjust. Factor	0.9999903450		
Combined Adjust. Factor	0.9999694612		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	2	59.9966304
Longitude	90	41	22.6665708
Ellipsoid Height (M):	34.633		
Geoid Height (M):	-26.867		

Location Description

To reach the station from the junction of highways 38 and 70 go south on hwy-38 for 0.12 miles to the station on the left at a field road east. 80 feet south of the field entrance, 28.0 feet east of the center of hwy-38 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "680012 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	237	20.73	68.0
MK # 2	Power pole	307	24.38	80.0
MK # 3	36 inch pine tree	0	42.06	138.0

AZ Mark Station	680012A
Geodetic Azimuth	180 51 29
Grid Azimuth	180 05 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARLR
Ref Mon # 3	TN45

Comments

Digital levels were ran by crew s5103 from NGS BM G 170 in July 2010 during JOB 110543

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680012A	6/16/2010	AHTD	ST. FRANCIS	38	110543

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	79,621.3681
Easting (M)	519,541.3410
Elevation (M)*	61.405
Northing (SFT)	261,224.4385
Easting (SFT)	1,704,528.5496
Elevation (SFT)*	201.459
Convergence Angle	0 45 44.7775685
Scale Factor	0.999980114
Elevation Adjust. Factor	0.9999903637
Combined Adjust. Factor	0.9999704779

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 2 37.8566772
Longitude	90 41 23.0698032
Ellipsoid Height (M):	34.524
Geoid Height (M):	-26.860

Location Description

To reach the station from the junction of highways 38 and 70 go south on hwy-38 for 1.10 miles to the station on the left at a field road east. 27 feet north of the field entrance, 28.0 feet east of the center of hwy-38 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "680012A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18 inch CMP	209	5.79	19.0
MK # 2	East end of 18 inch steel culvert	349	14.02	46.0
MK # 3				

AZ Mark Station	680012
Geodetic Azimuth	0 51 29
Grid Azimuth	0 05 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARLR
Ref Mon # 3	TN45

Comments

Digital levels were ran by crew s5103 from NGS BM G 170 in July 2010 during JOB 110543

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680013	6/16/2010	AHTD	ST. FRANCIS	70	110543

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	89,384.0231
Easting (M)	537,678.4640
Elevation (M)*	62.218
Northing (SFT)	293,254.0825
Easting (SFT)	1,764,033.4273
Elevation (SFT)*	204.128
Convergence Angle	0 52 44.6002542
Scale Factor	0.999967231
Elevation Adjust. Factor	0.9999902360
Combined Adjust. Factor	0.9999574673

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 7 46.1938692
Longitude	90 29 21.5999376
Ellipsoid Height (M):	35.229
Geoid Height (M):	-27.009

Location Description

To reach the station from the junction of highways 70 and 149 in Shell Lake go west on hwy-70 for 290.0 feet to the station on the right in front of the post office. 55.5 feet north of the center of hwy-70 and 4.00 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "680013 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	center of drop inlet	180	2.59	8.5
MK # 2	West end of a 18 inch cmp	251	13.56	44.5
MK # 3	Southwest end of post office	0	19.51	64.0

AZ Mark Station	680013A
Geodetic Azimuth	152 53 15
Grid Azimuth	152 00 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARLR
Ref Mon # 3	TN45

Comments

Digital levels were ran by crew s5103 from NGS BM H 173 in july 2010 during JOB 110543. H 173 is a height mod stations so the superceded elev was utilized.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680013A	6/16/2010	AHTD	ST. FRANCIS	149	110543

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	88,793.9141	
Easting (M)	537,992.1200	
Elevation (M)*	61.743	
Northing (SFT)	291,318.0332	
Easting (SFT)	1,765,062.4804	
Elevation (SFT)*	202.567	

Convergence Angle	0	52	51.6000951
Scale Factor	0.999967972		
Elevation Adjust. Factor	0.9999903107		
Combined Adjust. Factor	0.9999582830		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	7	26.8906620
Longitude	90	29	9.5706348
Ellipsoid Height (M):	34.755		
Geoid Height (M):	-27.003		

Location Description

To reach the station from the junction of highways 70 and 149 in Shell Lake go south on hwy-149 for 0.40 miles to the station on the left. 32.5 feet east of the center of hwy-149, 24.0 feet north of the center of a field entrance and 1.50 feet west of a witness post.The station mark is a 2 1/2 inch cap stamped "680013A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone box	105	16.15	53.0
MK # 2	North end of 18 inch culvert	88	7.16	23.5
MK # 3				

AZ Mark Station	680013
Geodetic Azimuth	332 53 22
Grid Azimuth	332 00 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	ARLR
Ref Mon # 3	TN45

Comments

Digital levels were ran by crew s5103 from NGS BM H 173 in july 2010 during JOB 110543. H 173 is a height mod stations so the superceded elev was utilized.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680014	2/9/2012	AHTD	ST. FRANCIS	261	110573

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,997.5662	
Easting (M)	502,730.3807	
Elevation (M)*	66.183	
Northing (SFT)	269,020.3484	
Easting (SFT)	1,649,374.5907	
Elevation (SFT)*	217.135	

Convergence Angle	0	39	19.4431688
Scale Factor	0.999976392		
Elevation Adjust. Factor	0.9999896138		
Combined Adjust. Factor	0.9999660061		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD09		
Latitude	35	4	1.7084748
Longitude	90	52	25.2711732
Ellipsoid Height (M):	39.200		
Geoid Height (M):	-26.960		

Location Description

Starting athe junction of highways 1 and 261 go west on 261 for 3.7 miles to the station on the left. The station is a standard alum. cap and 4 foot rebar. LAT.35.0402 LON.90.5225

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	east of a field entrance	270	3.05	10.0
MK # 2	south of the centerline of highway 261	0	8.23	27.0
MK # 3	south east of a power pole with guide wire	310	32.93	108.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680014A	2/9/2012	AHTD	ST. FRANCIS	261	110573

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,995.7890	
Easting (M)	502,308.4204	
Elevation (M)*	64.942	
Northing (SFT)	269,014.5177	
Easting (SFT)	1,647,990.2093	
Elevation (SFT)*	213.064	

Convergence Angle	0	39	9.7522398
Scale Factor	0.999976388		
Elevation Adjust. Factor	0.9999898086		
Combined Adjust. Factor	0.9999661968		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEIOD09		
Latitude	35	4	1.8071148
Longitude	90	52	41.9251404
Ellipsoid Height (M):	37.967		
Geoid Height (M):	-26.960		

Location Description

Starting at the junction of highways 1 and 261 go west for 3.9 miles to the station on the right. The station is a standard alum. cap with 4 foot rebar. LAT. 35.0402 LON.90.5242

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	north of the centerline of highway 261	180	7.32	24.0
MK # 2	east of th centerline of county road 251	270	17.98	59.0
MK # 3	west of gravel driveway	90	22.25	73.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 wire levels completed by Garver 1/2013 from NGS points P 15 and RV 219

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680015	4/13/2020	RASBURRY	ST. FRANCIS	75	110717

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	83,465.2698	0.0040
Easting (M)	525,914.4894	0.0040
Elevation (M)*		

Northing (SFT)	273,835.6393	
Easting (SFT)	1,725,437.7873	
Elevation (SFT)*		

Convergence Angle	0	48	12.3296757
Scale Factor	0.999974757		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	4	39.7545528
Longitude	90	37	9.4998972
Ellipsoid Height (M):	34.033	0.0160	
Geoid Height (M):	-27.025	0.0160	

Location Description

TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 75, GO SOUTH ON HIGHWAY 75 APPROXIMATELY 1.3 MILES AND THE MONUMENT IS APPROXIMATELY 33' LEFT OF THE CENTERLINE OF THE HIGHWAY

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	680015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARLR, ARPB
Ref Mon # 3	ARWY, MSGN

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680015A	4/13/2020	RASBURRY	ST. FRANCIS	75	110717

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	83,048.8982	0.0030
Easting (M)	525,918.2734	0.0040
Elevation (M)*		
Northing (SFT)	272,469.5935	
Easting (SFT)	1,725,450.2020	
Elevation (SFT)*		

Convergence Angle	0	48	12.2824812		
Scale Factor	0.999975334				
Elevation Adjust. Factor					
Combined Adjust. Factor					

Vertical Determined By:	GPS - Unknown Quality				
Elevation Datum:	NAVD 88				
Geoid Datum:	Geoid 18				
Latitude	35	4	26.2428132		
Longitude	90	37	9.5810016		
Ellipsoid Height (M):	33.792	0.0160			
Geoid Height (M):	-27.021	0.0160			

Location Description

TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 75, GO SOUTH ON HIGHWAY 75 APPROXIMATELY 1.6 MILES AND THE MONUMENT IS APPROXIMATELY 37' LEFT OF THE CENTERLINE OF THE HIGHWAY

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	680015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARLR, ARPB
Ref Mon # 3	ARWY, MSGN

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680016	4/13/2020	RASBURRY	ST. FRANCIS	50	110717

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	77,451.3803	0.0030
Easting (M)	535,904.3531	0.0030
Elevation (M)*		
Northing (SFT)	254,105.0702	
Easting (SFT)	1,758,212.8651	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	1	19.8990696	
Longitude	90	30	38.7962676	
Ellipsoid Height (M):	34.162			0.0140
Geoid Height (M):	-27.023			0.0140

Convergence Angle	0	51	59.6797771
Scale Factor	0.999983722		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 149 AND STATE HIGHWAY 50, GO WEST ON HIGHWAY 50 APPROXIMATELY 1.3 MILES AND THE MONUMENT IS APPROXIMATELY 28' RIGHT OF THE CENTERLINE OF THE HIGHWAY

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	680016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARLR, ARPB
Ref Mon # 3	ARWY, MSGN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680016A	4/13/2020	RASBURRY	ST. FRANCIS	50	110717

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	77,437.2830	0.0030
Easting (M)	536,307.5422	0.0030
Elevation (M)*		
Northing (SFT)	254,058.8193	
Easting (SFT)	1,759,535.6614	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	1	19.2434916	
Longitude	90	30	22.9019904	
Ellipsoid Height (M):	34.368	0.0140		
Geoid Height (M):	-27.026	0.0140		

Convergence Angle	0	52	8.9286432
Scale Factor	0.999983753		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 149 AND STATE HIGHWAY 50, GO WEST ON HIGHWAY 50 APPROXIMATELY 1.0 MILES AND THE MONUMENT IS APPROXIMATELY 28' RIGHT OF THE CENTERLINE OF THE HIGHWAY

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	680016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARLR, ARPB
Ref Mon # 3	ARWY, MSGN

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680017	4/13/2020	RASBURRY	ST. FRANCIS	357	110717

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	85,096.8851	0.0030
Easting (M)	541,707.6882	0.0040
Elevation (M)*		
Northing (SFT)	279,188.6972	
Easting (SFT)	1,777,252.6404	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	5	25.0574928	
Longitude	90	26	45.1413888	
Ellipsoid Height (M):	33.884	0.0170		
Geoid Height (M):	-27.118	0.0170		

Convergence Angle	0	54	15.6433474
Scale Factor	0.999972854		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 357, GO SOUTH ON HIGHWAY 357 APPROXIMATELY 3.2 MILES AND THE MONUMENT IS APPROXIMATELY 42' RIGHT OF THE CENTERLINE OF THE HIGHWAY

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	680017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARLR, ARPB
Ref Mon # 3	ARWY, MSGN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680017A	4/13/2020	RASBURRY	ST. FRANCIS	357	110717

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	85,500.1769	0.0030
Easting (M)	541,704.0736	0.0040
Elevation (M)*		
Northing (SFT)	280,511.8304	
Easting (SFT)	1,777,240.7815	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	5	38.1446124	
Longitude	90	26	45.0327732	
Ellipsoid Height (M):	34.343	0.0170		
Geoid Height (M):	-27.121	0.0170		

Convergence Angle	0	54	15.7065507
Scale Factor	0.999972313		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE MARK FROM THE INTERSECTION OF STATE HIGHWAY 70 AND STATE HIGHWAY 357, GO SOUTH ON HIGHWAY 357 APPROXIMATELY 2.9 MILES AND THE MONUMENT IS APPROXIMATELY 36' RIGHT OF THE CENTERLINE OF THE HIGHWAY

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	680017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARJB
Ref Mon # 2	ARLR, ARPB
Ref Mon # 3	ARWY, MSGN

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680018	4/1/2024	ARDOT	ST. FRANCIS	50	01X446

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	75,711.9717	0.0020
Easting (M)	542,134.3612	0.0010
Elevation (M)*	62.425	0.0000
Northing (SFT)	248,398.3605	
Easting (SFT)	1,778,652.4834	
Elevation (SFT)*	204.807	

Convergence Angle	0	54	22.0346716
Scale Factor	0.999986574		
Elevation Adjust. Factor	0.9999902035		
Combined Adjust. Factor	0.9999767777		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	0	20.3343300
Longitude	90	26	34.1578284
Ellipsoid Height (M):	35.359		0.0090
Geoid Height (M):	-27.066		

Location Description

From the intersection on U.S. Highway 79 and Arkansas State Highway 38 near Hughs in St Francis County, Arkansas, travel North East along U. S. Highway79 for 6.1 Miles to the intersection of U.S. Highway 79 and Arkansas State Highway 50 , then travel West along Arkansas State Highway 50 for 2.3 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 680018 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 28 feet (8.5 Meters) North of the centerline of Arkansas State Highway 50 and 9 feet (2.7 Meters) South of a witness post.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	3	2.70	8.9
MK # 2	WEST END 18" CULVERT	90	46.30	151.9
MK # 3	EAST END 18" CULVERT	260	48.20	158.1

AZ Mark Station	680018A
Geodetic Azimuth	85 52 03.5
Grid Azimuth	84 57 35.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARWM
Ref Mon # 3	ARMA

Comments

ELEV. WAS EST. BY STATIC OBS HOLDING NGS BM EDMONSON RM1 BY CREW S5101 DURING JOB 01X446 IN APRIL 2024

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
680018A	4/1/2024	ARDOT	ST. FRANCIS	50	01X446

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	75,754.2197	0.0020
Easting (M)	542,613.4036	0.0010
Elevation (M)*	61.518	0.0061
Northing (SFT)	248,536.9691	
Easting (SFT)	1,780,224.1416	
Elevation (SFT)*	201.831	

Convergence Angle	0	54	33.0424087
Scale Factor	0.999986519		
Elevation Adjust. Factor	0.9999903459		
Combined Adjust. Factor	0.9999768650		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	35	0	21.4588692	
Longitude	90	26	15.2409120	
Ellipsoid Height (M):	34.456			0.0090
Geoid Height (M):	-27.071			

Location Description

From the intersection on U.S. Highway 79 and Arkansas State Highway 38 near Hughs in St Francis County, Arkansas, travel North East along U. S. Highway79 for 6.1 Miles to the intersection of U.S. Highway 79 and Arkansas State Highway 50 , then travel West along Arkansas State Highway 50 for 2.0 Miles to the station on the Right. The Station is a standard 2.5 inch AHTD GPS cap stamped 680018A (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 30 feet (9.1 Meters) North of the centerline of Arkansas State Highway 50, 94 feet (28.6M) east of Arkansas State Highway 357 and 9 feet (2.7 Meters) South of a witness post.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	4	3.00	9.8
MK # 2	TELEPHONE HAND HOLE	330	16.10	52.8
MK # 3	TELEPHONN PEDESTAL	275	2.70	8.9

AZ Mark Station	680018
Geodetic Azimuth	265 52 03.5
Grid Azimuth	264 57 35.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARWY
Ref Mon # 2	ARWM
Ref Mon # 3	ARMA

Comments

ELEV WAS EST BY RUNNING 3WR LEVELS FROM STATIC DERIVED ELEV ON GPS MON. 680018 BY CREW S5101 DURING JOB 01X446 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690001	10/23/1995	AHTD	Stone	5	R50116,R50089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	161,850.2639	
Easting (M)	402,369.0980	
Elevation (M)*	371.220	
Northing (SFT)	531,003.7408	
Easting (SFT)	1,320,105.9490	
Elevation (SFT)*	1,217.911	

Convergence Angle	0	0	54.9024271
Scale Factor	0.999942500		
Elevation Adjust. Factor	0.9999417469		
Combined Adjust. Factor	0.9998842502		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	47	31.9239168
Longitude	91	58	25.6495800
Ellipsoid Height (M):	343.791		
Geoid Height (M):	-27.429		

Location Description

FROM THE JCT. OF HWYS. 5, 14 AND 9 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT. WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.00 MILES) TO A BRIDGE OVER "COVE PRONG CREEK", CONTINUE AHEAD ON HWY. 5 FOR 6.68 KM (4.15 MILES) TO THE STATION ON THE LEFT. THE STATION IS 22.7 METERS EAST-SOUTHEAST OF A FIELD ENTRANCE, 11.8 METERS NORTH-NORTHEAST OF THE CENTER OF HWY. 5, 0.61 METERS SOUTH-SOUTHWEST OF A WITNESS POST AND 0.78 METERS SOUTH-SOUTHWEST OF A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690001 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MOST EASTERLY WOODEN GATE POST	300	20.35	66.8
MK # 2	WOODEN FENCE POST	320	2.40	7.9
MK # 3	WOODEN FENCE POST	96	2.35	7.7

AZ Mark Station	690001A
Geodetic Azimuth	120 20 31
Grid Azimuth	120 19 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR, ARBT, ARHR
Ref Mon # 2	690006, N 42
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690001A	10/23/1995	AHTD	Stone	5	R50116,R50089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	161,655.9169	
Easting (M)	402,701.3290	
Elevation (M)*	379.542	
Northing (SFT)	530,366.1207	
Easting (SFT)	1,321,195.9436	
Elevation (SFT)*	1,245.214	

Convergence Angle	0	1	2.6003158
Scale Factor	0.999942390		
Elevation Adjust. Factor	0.9999404410		
Combined Adjust. Factor	0.9998828345		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	47	25.6147872
Longitude	91	58	12.4206744
Ellipsoid Height (M):	352.114		
Geoid Height (M):	-27.428		

Location Description

FROM THE JCT. OF HWYS. 5, 9 AND 14 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.0 MILES) TO A BRIDGE OVER "COVE PRONG CREEK", CONTINUE SOUTHERLY ON HWY. 5 FOR 7.08 KM (4.40 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.5 METERS NORTH-NORTHEAST OF THE CENTER OF HWY. 5 AND 0.83 METERS SOUTH-SOUTHWEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690001A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	16" (0.40 M) CEDAR TREE	104	24.00	78.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	690001
Geodetic Azimuth	300 20 38
Grid Azimuth	300 19 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBA, ARLR, ARHR
Ref Mon # 2	690006, N 42
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690002	10/23/1995	AHTD	Stone	5	R50116,R50089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	163,693.3999	
Easting (M)	397,238.3500	
Elevation (M)*	206.266	
Northing (SFT)	537,050.7628	
Easting (SFT)	1,303,272.8200	
Elevation (SFT)*	676.724	

Convergence Angle	0	1	4.0128412
Scale Factor			0.999943591
Elevation Adjust. Factor			0.9999676312
Combined Adjust. Factor			0.9999112240

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	48	31.7251116
Longitude	92	1	50.0067660
Ellipsoid Height (M):	178.807		
Geoid Height (M):	-27.459		

Location Description

FROM THE JCT. OF HWYS. 5, 14 AND 9 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE JCT WITH HWY. 5 SOUTH ON THE RIGHT, TURN RIGHT AND GO SOUTHERLY ON HWY. 5 FOR 8.05 KM (5.0 MILES) TO A BRIDGE OVER "COVE PRONG CREEK" AND THE STATION ON THE LEFT NEAR THE NORTHEAST CORNER OF THE BRIDGE. THE STATION IS 7.30 METERS EAST-NORTHEAST OF THE CENTER OF HWY. 5, 2.70 METERS NORTH OF THE NORTHEAST CORNER OF THE BRIDGE AND 0.86 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690002 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUARD RAIL POST	335	2.40	7.9
MK # 2	GUARD RAIL POST	241	0.50	1.6
MK # 3	GUARD RAIL POST	174	12.45	40.8

AZ Mark Station	690008
Geodetic Azimuth	330 32 41
Grid Azimuth	330 33 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBA, ARLR, ARHR
Ref Mon # 2	690006, N 42
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690004	10/23/1995	AHTD	Stone	5	R50116,R50089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	168,850.7390
Easting (M)	392,610.3350
Elevation (M)*	
Northing (SFT)	553,971.1329
Easting (SFT)	1,288,089.0741
Elevation (SFT)*	

Convergence Angle	0	2	51.3858266
Scale Factor	0.999947088		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	18.9801036
Longitude	92	4	54.5284128
Ellipsoid Height (M):	205.907		
Geoid Height (M):	-27.560		

Location Description

FROM THE JCT. OF HWYS. 5, 9 AND 14 ON THE EAST SIDE OF MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.66 KM (1.65 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.80 METERS WEST-NORTHWEST OF THE PAVED ENTRANCE TO THE "STONE COUNTY HEALTH CLINIC", 3.20 METERS SOUTH-SOUTHWEST OF THE BACK OF A CONCRETE CURB AND 5.90 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690004 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	303	8.90	29.2
MK # 2	COMBINATION POLE	99	16.30	53.5
MK # 3	WEST CORNER OF A 1.7M X 1.7M X 1.0M W	115	5.15	16.9

AZ Mark Station	690004A
Geodetic Azimuth	298 44 51
Grid Azimuth	298 47 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBA, ARLR, ARHR
Ref Mon # 2	690006, N 42
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690004A	10/23/1995	AHTD	Stone	5	R50116,R50089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	169,056.9539	
Easting (M)	392,235.1550	
Elevation (M)*		

Northing (SFT)	554,647.6896	
Easting (SFT)	1,286,858.1710	
Elevation (SFT)*		

Convergence Angle	0	3	0.0914114
Scale Factor			0.999947241
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	51	25.6607676
Longitude	92	5	9.4890552
Ellipsoid Height (M):	205.753		
Geoid Height (M):	-27.563		

Location Description

FROM THE JCT. OF HWYS. 5, 9 AND 14 ON THE EAST SIDE MOUNTAIN VIEW, GO EASTERLY ON HWYS. 5 AND 14 FOR 2.25 KM (1.40 MILES) TO THE STATION ON THE LEFT JUST SOUTH OF THE SOUTH EDGE OF THE FOOTBALL FIELD. THE STATION IS 12.0 METERS EAST-SOUTHEAST OF A GRAVEL DRIVEWAY, 8.60 METERS NORTH-NORTHEAST OF THE CENTER OF HWY. 5 AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "690004A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	270	3.45	11.3
MK # 2	SOUTHEAST CORNER OF BRICK SIGN BASE	325	28.40	93.2
MK # 3	22" (0.55 METER) BLACK WALNUT TREE	10	26.80	87.9

AZ Mark Station	690004
Geodetic Azimuth	118 44 42
Grid Azimuth	118 47 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBA, ARLR, ARHR
Ref Mon # 2	690006, N 42
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690005	11/9/2004	AHTD	STONE	263	050164

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	177,383.8940
Easting (M)	367,993.4790
Elevation (M)*	276.611
Northing (SFT)	581,966.9922
Easting (SFT)	1,207,325.2724
Elevation (SFT)*	907.515

Convergence Angle	0	12	23.0255377
Scale Factor			0.999954269
Elevation Adjust. Factor			0.9999565926
Combined Adjust. Factor			0.9999108636

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	55	54.0810732	
Longitude	92	21	16.8974928	
Ellipsoid Height (M):	248.774			
Geoid Height (M):	-27.836			

Location Description

To reach the station from the junction of State highways 66 and 263 in Timbo, Ar. Go north on highway 263 for 5.90 miles to the station on the right near a gravel drive and gate. 9.50 meters Northeast of the center of hwy-263 and 2.20 meters Southwest of a witness post. The station mark is a standard 64mm cap stamped "690005 2004" set on top of an iron rod 1.22 meters long and is just below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole #110	341	27.80	91.2
MK # 2	NW corner of rock post	152	28.55	93.7
MK # 3				

AZ Mark Station	690005A
Geodetic Azimuth	156 33 27
Grid Azimuth	156 45 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	Butler
Ref Mon # 2	Tri County
Ref Mon # 3	640009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690005A	11/9/2004	AHTD	STONE	263	050164

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	176,998.3989	
Easting (M)	368,158.9900	
Elevation (M)*	286.924	
Northing (SFT)	580,702.2471	
Easting (SFT)	1,207,868.2864	
Elevation (SFT)*	941.350	

Convergence Angle	0	12	19.1511934
Scale Factor	0.999953905		
Elevation Adjust. Factor	0.9999549743		
Combined Adjust. Factor	0.9999088814		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	55	41.5925652
Longitude	92	21	10.2393900
Ellipsoid Height (M):	259.095		
Geoid Height (M):	-27.829		

Location Description

To reach the station from the junction of State highways 66 and 263 in Timbo, Ar. Go north on highway 263 for 5.70 miles to the station on the right. 8.85 meters East or the center of hwy-263, 3.40 meters North of the center of a farm entrance and 1.30 meters West of a witness post. The station mark is a standard 64mm cap stamped "690005A 2004" set on top of an iron 1.22 meters long and is just below the grounds' surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Wooden gate post	136	1.80	5.9
MK # 2	Four inch Cedar tree	15	3.80	12.5
MK # 3				

AZ Mark Station	690005
Geodetic Azimuth	336 33 31
Grid Azimuth	336 45 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	Butler
Ref Mon # 2	Tri County
Ref Mon # 3	640009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690006	12/5/2008	AHTD	STONE	87	050164

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	170,293.5589	
Easting (M)	389,033.0110	
Elevation (M)*	228.093	
Northing (SFT)	558,704.7845	
Easting (SFT)	1,276,352.4703	
Elevation (SFT)*	748.335	

Convergence Angle	0	4	14.3946087
Scale Factor	0.999948182		
Elevation Adjust. Factor	0.9999642061		
Combined Adjust. Factor	0.9999123899		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	52	5.6752608	
Longitude	92	7	17.1799104	
Ellipsoid Height (M):	200.500			
Geoid Height (M):	-27.593			

Location Description

The station mark is located 54.0 feet northwest of the intersection of highways 66 and 87 in the center of Mountain View. 34.8 feet northwest of the center of hwy-66 and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "690006 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Guy Pole	14	12.04	39.5
MK # 2	Guy Pole	234	15.54	51.0
MK # 3	Combination pole with guy wire	312	17.92	58.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690007	10/5/2009	AHTD	Stone	5	R50116,R50089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,324.5789
Easting (M)	400,374.1660
Elevation (M)*	380.182
Northing (SFT)	535,840.7226
Easting (SFT)	1,313,560.9096
Elevation (SFT)*	1,247.314

Convergence Angle	0	0	8.6725094
Scale Factor			0.999943366
Elevation Adjust. Factor			0.9999403406
Combined Adjust. Factor			0.9998837100

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	48	19.7715168	
Longitude	91	59	45.0961980	
Ellipsoid Height (M):	352.737			
Geoid Height (M):	-27.445			

Location Description

To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 7.40 miles to the Iron Mt. Fire station and the station on the left. 21.0 feet north of the center of hwy-5, 105 feet southwest of the southeast corner of the fire station, 40.50 feet east of the driveway to the station and 4.20 feet southwest of a witness post. The station mark is a 2 1/2 in. cap stamped "690007 2009" set on top of a 5/8 inch by 1.80 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	53	8.17	26.8
MK # 2	Guy wire	25	8.65	28.4
MK # 3	Fire hydrant	328	33.22	109.0

AZ Mark Station	690007A
Geodetic Azimuth	118 09 15
Grid Azimuth	118 09 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBA, ARLR, ARHR
Ref Mon # 2	690006, N 42
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690007A	10/5/2009	AHTD	Stone	5	R50116,R50089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,057.3660
Easting (M)	400,873.5260
Elevation (M)*	389.594
Northing (SFT)	534,964.0416
Easting (SFT)	1,315,199.2266
Elevation (SFT)*	1,278.193

Convergence Angle	0	0	20.2461877
Scale Factor	0.999943205		
Elevation Adjust. Factor	0.9999388637		
Combined Adjust. Factor	0.9998820722		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	48	11.1000384
Longitude	91	59	25.2067056
Ellipsoid Height (M):	362.152		
Geoid Height (M):	-27.442		

Location Description

To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 7.70 miles to the top of a hill and the station on the right. 16.50 feet southwest of the center of hwy-5, 133 feet northwest of the northwest corner of a brick house, 123 feet northwest of the center of a driveway and 20.00 feet northeast of a witness post. The station mark is a 2 1/2 in. cap stamped "690007A 2009" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Princess tree	148	13.11	43.0
MK # 2	telephone box	215	30.02	98.5
MK # 3	Combination pole	180	43.58	143.0

AZ Mark Station	690007
Geodetic Azimuth	298 09 27
Grid Azimuth	298 09 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBA, ARLR, ARHR
Ref Mon # 2	690006, N 42
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690008	10/5/2009	AHTD	Stone	5	R50116,R50089

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	164,140.1370	
Easting (M)	396,986.2410	
Elevation (M)*	202.490	
Northing (SFT)	538,516.4328	
Easting (SFT)	1,302,445.6923	
Elevation (SFT)*	664.336	

Convergence Angle	0	1	9.8600337
Scale Factor			0.999943868
Elevation Adjust. Factor			0.9999682237
Combined Adjust. Factor			0.9999120935

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	48	46.2178512
Longitude	92	2	0.0552300
Ellipsoid Height (M):	175.025		
Geoid Height (M):	-27.465		

Location Description

To reach the station from the junction of highways 5 and 14 on the east side of Mountain View, go south on hwy-5 for 4.70 miles to Station on left on top of the bank at its crest. 55.4 feet North-Eest of centerline of highway 5. 286 feet North-West of gated field entrance. 12.1 feet South-West of a witness post. The station mark is 2 1/2 inch aluminum cap set on top of 5/8 inch by 2 feet rebar stamped "690008 2009"

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Barbed wire fence	53	3.75	12.3
MK # 2	Wooden brace post	353	1.40	4.6
MK # 3	Wooden brace post	126	7.92	26.0

AZ Mark Station	690002
Geodetic Azimuth	150 32 35
Grid Azimuth	150 33 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARLR
Ref Mon # 2	690006, ARHR, N 42
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690009	9/16/2010	AHTD	Stone	Culp	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,323.8230	
Easting (M)	383,104.0540	
Elevation (M)*	155.635	
Northing (SFT)	644,105.7426	
Easting (SFT)	1,256,900.5505	
Elevation (SFT)*	510.612	

Convergence Angle	0	6	33.0754295
Scale Factor	0.999976798		
Elevation Adjust. Factor	0.9999755764		
Combined Adjust. Factor	0.9999523750		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	6	9.9439668	
Longitude	92	11	15.5044140	
Ellipsoid Height (M):	127.651			
Geoid Height (M):	-27.984			

Location Description

To reach from the Stone county line at Calico Rock on Hwy 5, go south on Hwy 5 for 2.0 miles to Culp road on the right, go right on Culp road for 2.6 miles to the station on the right. The station mark is a 2 1/2 inch cap stamped "690009, 2010" set in top of a rock outcropping.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole with guy wires	300	10.36	34.0
MK # 2				
MK # 3				

AZ Mark Station	690009A
Geodetic Azimuth	128 28 47
Grid Azimuth	128 35 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690009A	9/16/2010	AHTD	Stone	Culp	FA0312

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	196,086.3339
Easting (M)	383,401.6680
Elevation (M)*	164.909
Northing (SFT)	643,326.5805
Easting (SFT)	1,257,876.9724
Elevation (SFT)*	541.039

Convergence Angle	0	6	26.1412660
Scale Factor			0.999976461
Elevation Adjust. Factor			0.9999741211
Combined Adjust. Factor			0.9999505827

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	2.2569768
Longitude	92	11	3.5879784
Ellipsoid Height (M):	136.931		
Geoid Height (M):	-27.978		

Location Description

To reach from the Stone county line at Calico Rock on Hwy 5, go south on Hwy 5 for 2.0 miles to Culp road on the right, go right on Culp road for 2.3 miles to the station on the right. The station mark is a 2 1/2 inch cap stamped "690009A, 2010" set in top of a rock outcropping.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	10	1.52	5.0
MK # 2				
MK # 3				

AZ Mark Station	690009
Geodetic Azimuth	308 28 55
Grid Azimuth	308 35 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	MONA
Ref Mon # 3	ARHR, ARBT, C 39, 690006

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690010	10/18/2010	AHTD	Stone	66	050231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	169,875.8580
Easting (M)	386,238.0710
Elevation (M)*	199.140
Northing (SFT)	557,334.3775
Easting (SFT)	1,267,182.7379
Elevation (SFT)*	653.346

Convergence Angle	0	5	19.2120537
Scale Factor			0.999947856
Elevation Adjust. Factor			0.9999687494
Combined Adjust. Factor			0.9999166070

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	51.9961068
Longitude	92	9	8.5693968
Ellipsoid Height (M):	171.543		
Geoid Height (M):	-27.597		

Location Description

To reach the station from the junction of highways 66 and 9 in Mountain View go west on hwy-66 for 2.0 miles to the station on the right across the highway from the Stone county iron works. 37.0 feet north of the center of hwy-66, 75.0 west of the center of "Industrial Rd." and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "690010 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fire hydrant	12	48.46	159.0
MK # 2	Combination pole with guy	75	7.93	26.0
MK # 3	Pole with three transformers	180	54.86	180.0

AZ Mark Station	690010A
Geodetic Azimuth	1 49 41
Grid Azimuth	1 55 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	P777
Ref Mon # 3	ARBT

Comments

Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690010A	10/18/2010	AHTD	Stone	NA	050231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	170,300.1220
Easting (M)	386,252.2690
Elevation (M)*	204.912
Northing (SFT)	558,726.3169
Easting (SFT)	1,267,229.3192
Elevation (SFT)*	672.283

Convergence Angle	0	5	18.8979413
Scale Factor			0.999948184
Elevation Adjust. Factor			0.9999678436
Combined Adjust. Factor			0.9999160293

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	52	5.7628236	
Longitude	92	9	8.0295912	
Ellipsoid Height (M):	177.300			
Geoid Height (M):	-27.605			

Location Description

To reach the station from the junction of highways 66 and 9 in Mountain View go west on hwy-66 for 2.0 miles to Industrial Road on the right across the highway from the Stone county iron works. Turn right on Industrial road and go 0.30 miles to the station on the left by a water pumping station. 31.0 feet west of the center of "Industrial Rd.", 23.0 feet south of the center of a gravel drive, 4.0 feet east of a 6 foot tall chain link fence and 4.0 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "690010A 2010" set on top of a 5/8 inch by 3 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Center of a gate	345	7.01	23.0
MK # 2	South end of a 18 inch CMP	37	3.20	10.5
MK # 3	South end of a chain link fence	184	25.60	84.0

AZ Mark Station	690010
Geodetic Azimuth	181 49 41
Grid Azimuth	181 55 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	P777
Ref Mon # 3	ARBT

Comments

Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690011	10/18/2010	AHTD	Stone	66	050231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	171,817.5769	
Easting (M)	382,642.3410	
Elevation (M)*	212.529	
Northing (SFT)	563,704.8335	
Easting (SFT)	1,255,385.7471	
Elevation (SFT)*	697.271	

Convergence Angle	0	6	42.7038255
Scale Factor	0.999949387		
Elevation Adjust. Factor	0.9999666484		
Combined Adjust. Factor	0.9999160371		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	52	54.7943520
Longitude	92	11	32.0509176
Ellipsoid Height (M):	184.869		
Geoid Height (M):	-27.660		

Location Description

To reach the station from the junction of highways 66 and 9 in Mountain View go west on hwy-66 for 5.50 miles to the station on the right. 39.0 feet north of the center of hwy-66, 10.0 feet south of a barb wire fence and 10.0 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "690011 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Conctete right of way marker	289	32.92	108.0
MK # 2	Center of a wooden fence brace	99	34.44	113.0
MK # 3				

AZ Mark Station	690011A
Geodetic Azimuth	274 02 44
Grid Azimuth	274 09 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	P777
Ref Mon # 3	ARBT

Comments

Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690011A	10/18/2010	AHTD	Stone	66	050231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	171,848.7409
Easting (M)	382,213.6000
Elevation (M)*	203.034
Northing (SFT)	563,807.0774
Easting (SFT)	1,253,979.1193
Elevation (SFT)*	666.121

Convergence Angle	0	6	52.6521890
Scale Factor			0.999949412
Elevation Adjust. Factor			0.9999681383
Combined Adjust. Factor			0.9999175520

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	52	55.7780232	
Longitude	92	11	49.1472888	
Ellipsoid Height (M):	175.375			
Geoid Height (M):	-27.663			

Location Description

To reach the station from the junction of highways 66 and 9 in Mountain View go west on hwy-66 for 5.80 miles to the station on the right. 27.7 feet north of the center of hwy-66, 69.0 feet west of the center of a gravel driveway and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "690011A 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	77	26.52	87.0
MK # 2				
MK # 3				

AZ Mark Station	690011
Geodetic Azimuth	94 02 34
Grid Azimuth	94 09 27

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	P777
Ref Mon # 3	ARBT

Comments

Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690012	10/18/2010	AHTD	Stone	66	050231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	172,560.5870	
Easting (M)	377,310.0160	
Elevation (M)*	183.755	
Northing (SFT)	566,142.5258	
Easting (SFT)	1,237,891.2775	
Elevation (SFT)*	602.870	

Convergence Angle	0	8	46.4591746
Scale Factor	0.999949990		
Elevation Adjust. Factor	0.9999711636		
Combined Adjust. Factor	0.9999211551		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	18.5128008
Longitude	92	15	4.7258352
Ellipsoid Height (M):	156.038		
Geoid Height (M):	-27.717		

Location Description

To reach the station from the junction of highways 66 and 263 in Timbo go east on hwy-66 for 4.40 miles to the station on the left. 23.0 feet north of the center of hwy-66, 121 feet west of the center of " Spout Springs road" and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "690012 2010" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	West end of a 15 inch CMP	195	15.24	50.0
MK # 2	Southeast corner of a building	355	16.76	55.0
MK # 3				

AZ Mark Station	690012A
Geodetic Azimuth	266 08 22
Grid Azimuth	266 17 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	P777
Ref Mon # 3	ARBT

Comments

Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690012A	10/18/2010	AHTD	Stone	66	050231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	172,534.0599
Easting (M)	376,901.3830
Elevation (M)*	208.672
Northing (SFT)	566,055.4949
Easting (SFT)	1,236,550.6207
Elevation (SFT)*	684.618
Convergence Angle	0 8 55.9387471
Scale Factor	0.999949967
Elevation Adjust. Factor	0.9999672536
Combined Adjust. Factor	0.9999172223

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 53 17.6179452
Longitude	92 15 21.0165840
Ellipsoid Height (M):	180.946
Geoid Height (M):	-27.719

Location Description

To reach the station from the junction of highways 66 and 263 in Timbo go east on hwy-66 for 4.10 miles to the station on the right. 41.0 feet south of the center of hwy-66, and 3.70 feet north of a witness post set next to a barb wire fence. The station mark is a 2 1/2 inch cap stamped "690012A 2010" set on top of a 5/8 inch by 3 foot long rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	294	12.80	42.0
MK # 2	center of a steel gate	284	7.32	24.0
MK # 3	15 inch Cherry tree	99	24.69	81.0

AZ Mark Station	690012
Geodetic Azimuth	86 08 13
Grid Azimuth	86 17 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	Tri County
Ref Mon # 2	P777
Ref Mon # 3	ARBT

Comments

Digital levels were ran by crew S5103 from NGS mark Z 17 during job 050231 in Oct. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690013	4/15/2024	ARDOT	STONE	5	05X300

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	193,884.8094	0.0020
Easting (M)	386,515.7302	0.0020
Elevation (M)*		

Northing (SFT)	636,103.7455	
Easting (SFT)	1,268,093.6915	
Elevation (SFT)*		

Convergence Angle	0	5	13.6184140
Scale Factor			0.999973411
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	36	4	51.0005748	
Longitude	92	8	58.9566660	
Ellipsoid Height (M):	156.219			0.0090
Geoid Height (M):	-28.030			0.0090

Location Description

To reach from the intersection of Hwy 5, Hwy. 9, and Hwy 14 in Allison, go North on Hwy 5 for 13.35 miles to the station on the Right/East.The station is 35.5 ft. East of the centerline of Hwy. 5, and 30.7 ft. North of the center of Spring Holler Rd. The station mark is a standard 2 1/2 in. cap stamped "690013 2024" and set on top of a 5/8 in. by 4 ft. rebar and driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" PINE TREE	106	12.70	41.7
MK # 2	18" CORROGATED METAL PIPE	231	6.20	20.3
MK # 3				

AZ Mark Station	690013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

STATIC DERIVED ELEV. 604.4909 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARHR & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690013A	4/15/2024	ARDOT	STONE	5	05X300

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	193,477.4064	0.0020
Easting (M)	386,488.3144	0.0020
Elevation (M)*		
Northing (SFT)	634,767.1242	
Easting (SFT)	1,268,003.7448	
Elevation (SFT)*		

Convergence Angle	0	5	14.2416154
Scale Factor	0.999972858		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	4	37.7811012
Longitude	92	9	0.0276444
Ellipsoid Height (M):	146.789		0.0090
Geoid Height (M):	-28.023		0.0090

Location Description

To reach from the intersection of Hwy 5, Hwy. 9, and Hwy 14 in Allison, go North on Hwy 5 for 13.1 miles to the station on the Right/East.The station is 19.3 ft. East of the centerline of Hwy. 5, and 19.0 ft. North of the center of gravel driveway. The station mark is a standard 2 1/2 in. cap stamped "690013A 2024" and set on top of a 5/8 in. by 4 ft. rebar and driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH BRICK DRIVEWAY LIGHT PILLAR	109	7.80	25.6
MK # 2				
MK # 3				

AZ Mark Station	690013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

ELEV. 573.5069 US FT IS BASED ON DIGITAL LEVELS FROM GPS # 690013 WHOSE ELEV. IS STATIC DERIVED. STATIC DERIVED ELEV. TO 690013A IS 573.5287 US FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690014	4/17/2024	ARDOT	STONE	9	05X297

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	161,155.1822	0.0010
Easting (M)	380,782.8318	0.0010
Elevation (M)*		

Northing (SFT)	528,723.2936	
Easting (SFT)	1,249,285.0073	
Elevation (SFT)*		

Convergence Angle	0	7	25.3109135
Scale Factor			0.999942099
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	47	8.7074340	
Longitude	92	12	45.2716632	
Ellipsoid Height (M):	283.713			0.0070
Geoid Height (M):	-27.619			0.0070

Location Description

To reach from the intersection of Hwy 9 and Hwy. 263 North of Rushing, go North on Hwy. 9 for 4.4 miles to Oliver Rd. on the Right/South. Take Oliver Rd. for 0.1 miles to the station on the Left/East. The station is 37.1 ft. East of the center of Oliver Rd., and 11.3 ft. South of a dirt field entrance. The station mark is a standard 2 1/2in. aluminium cap stamped "690014 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	197	15.60	51.2
MK # 2				
MK # 3				

AZ Mark Station	690014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

STATIC DERIVED ELEV. 1021.4307 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARHR & ARRV

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
690014A	4/17/2024	ARDOT	STONE	9	05X297

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	160,904.3160	0.0010
Easting (M)	380,739.8998	0.0010
Elevation (M)*		
Northing (SFT)	527,900.2434	
Easting (SFT)	1,249,144.1546	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	47	0.5644680	
Longitude	92	12	46.9596924	
Ellipsoid Height (M):	272.154			0.0070
Geoid Height (M):	-27.619			0.0070

Convergence Angle	0	7	26.2931762
Scale Factor	0.999941961		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the intersection of Hwy 9 and Hwy. 263 North of Rushing, go North on Hwy. 9 for 4.4 miles to Oliver Rd. on the Right/South. Take Oliver Rd. for 0.25 miles to the station on the Right/South. The station is 24.0 ft. South of the center of Oliver Rd., and 24.0 ft. East of a dirt powerline road. The station mark is a standard 2 1/2in. aluminium cap stamped "690014A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	201	7.00	23.0
MK # 2				
MK # 3				

AZ Mark Station	690014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARRV

Comments

ELEV. 983.4887 US FT IS BASED ON DIGITAL LEVELS FROM GPS # 690014 WHOSE ELEV. IS STATIC DERIVED. STATIC DERIVED ELEV. TO 690014A IS 983.5046 US FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700001	5/1/1995	AHTD	UNION	167	070076,070059,7997

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	460,766.0265
Easting (M)	340,860.8380
Elevation (M)*	81.301
Northing (SFT)	1,511,696.5386
Easting (SFT)	1,118,307.5993
Elevation (SFT)*	266.735

Convergence Angle	0	21	18.1228029
Scale Factor			1.000020464
Elevation Adjust. Factor			0.9999872414
Combined Adjust. Factor			1.0000077051

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	12	46.3676760
Longitude	92	38	3.6113244
Ellipsoid Height:			54.517
Grid Northing (Meters)			460,766.3711
Grid Easting (Meters)			340,861.1553

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	12	46.3564260
Longitude	92	38	3.6234960
Ellipsoid Height (M):	54.963		
Geoid Height (M):	-26.161		

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 82B IN SOUTH ELDORADO, GO NORTH ON HWY 167 FOR 1.609 KM (1.0 MI) TO THE JCT. WITH HWY. 15 THAT IS ALSO MAIN STREET, TAKE THE HWY. 15 EXIT AND CONTINUE AHEAD FOR 0.38 KM (0.24 MI) TO THE STATION ON THE LEFT BEHIND THE GUARD RAIL IN AN OPEN AREA ON TOP OF THE BANK BETWEEN HWY. 167 AND THE EXIT RAMP. THE STATION IS 75.755 METERS SOUTH OF THE CENTER OF HWY. 15 OVERPASS, 18.7 METERS WEST OF THE CENTERLINE OF THE OFF RAMP AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "700001 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGHT AND IS FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 629.872 METERS. THIS STATION WAS UPDATED ON 5/10/00.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	6TH GUARD RAIL POST FROM SOUTH END	128	14.00	45.9
MK # 2	9TH GUARD RAIL POST FROM SOUTH END	80	13.20	43.3
MK # 3	12TH GUARD RAIL POST FROM SOUTH END	48	20.30	66.6

AZ Mark Station	700001A
Geodetic Azimuth	7 09 16.753652
Grid Azimuth	7 30 34.858411

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	700009

Comments

From Job 070059 Elevation (NGVD29) = 266.912 FT. This was converted using VERTCON to NAVD88

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700001A	5/1/1999	AHTD	UNION	167	070059,070076,070074,7997

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	461,390.4913
Easting (M)	340,943.1577
Elevation (M)*	84.488
Northing (SFT)	1,513,745.3035
Easting (SFT)	1,118,577.6766
Elevation (SFT)*	277.190

Convergence Angle	0	21	16.4272599
Scale Factor			1.000019072
Elevation Adjust. Factor			0.9999867413
Combined Adjust. Factor			1.0000058130

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	13	6.6532980
Longitude	92	38	0.5820288
Ellipsoid Height:			57.720
Grid Northing (Meters)			461,390.8423
Grid Easting (Meters)			340,943.4717

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	13	6.6418392
Longitude	92	38	0.5940672
Ellipsoid Height (M):	58.190		
Geoid Height (M):	-26.161		

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 82B IN SOUTH EL DORADO, GO NORTH ON HWY 167 FOR 2.62 KM (1.63 MI) TO THE STATION ON THE RIGHT ON TOP OF A DIRT BANK. THE SATION IS 16.2 METERS EAST OF THE CENTERLINE OF HWY 167, 42.3 METERS WEST OF NORTH-SOUTH RIGHT OF WAY FENCE LINE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "700001A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGHT AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 629.872. THIS STATION WAS UPDATED ON 5-10-00.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700001
Geodetic Azimuth	187 09 18.41315
Grid Azimuth	187 30 34.85841

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	700009

Comments

3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700002	5/1/1995	AHTD	UNION	15	070059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	461,757.7180	
Easting (M)	345,906.2970	
Elevation (M)*	64.151	
Northing (SFT)	1,514,950.1131	
Easting (SFT)	1,134,860.9094	
Elevation (SFT)*	210.469	

Convergence Angle	0	19	29.2036577
Scale Factor	1.000018193		
Elevation Adjust. Factor	0.9999899327		
Combined Adjust. Factor	1.0000081255		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	13	19.5163392
Longitude	92	34	49.0175328
Ellipsoid Height (M):	37.327		
Geoid Height (M):	-26.824		

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 15 IN EASTERN EL DORADO, GO NORTH AND EAST ON HWY. 15 FOR 5.26 KM (3.27 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 10.5 METERS EAST OF THE CENTERLINE OF HWY. 15, 22.5 METERS NORTH OF THE CENTER OF AN ASPHALT DRIVEWAY, 51.0 METERS SOUTH OF A GRAVEL DRIVEWAY AND 3.87 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700002"SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE ELEVATION ON STATIONS 700002, 700002A, 700003 AND 700003A WERE ARRIVED AT BY LEVELING USING GOVERNMENT BENCH MARKS ON HWY. 15 AND DO NOT MATCH THE ELEVATIONS THAT WERE RUN FROM AN EXISTING BENCH MARK ON HWY. 167. THERE APPEARS TO BE AN ERROR OF 0.1829 METERS BETWEEN THE TWO BENCH LEVEL LINES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CROSS TIE CORNER POST	220	13.00	42.7
MK # 2	4" x 4" FENCE POST	150	4.00	13.1
MK # 3	4" x 4" FENCE POST	77	13.00	42.7

AZ Mark Station	700002A
Geodetic Azimuth	61 14 12.210756
Grid Azimuth	61 33 41.315347

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT 1990
Ref Mon # 2	STELL 1986
Ref Mon # 3	NORPHLET 1952

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700002A	5/1/1995	AHTD	UNION	15	070059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	461,994.0270	
Easting (M)	346,342.6380	
Elevation (M)*	73.008	
Northing (SFT)	1,515,725.4036	
Easting (SFT)	1,136,292.4715	
Elevation (SFT)*	239.527	

Convergence Angle	0	19	19.8013230	
Scale Factor	1.000017666			
Elevation Adjust. Factor	0.9999885428			
Combined Adjust. Factor	1.0000062086			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	13	27.2664408	
Longitude	92	34	32.2183704	
Ellipsoid Height (M):	46.184			
Geoid Height (M):	-26.824			

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 15 IN EASTERN EL DORADO, GO NORTH AND EAST ON HWY. 15 FOR 5.74 KM (3.57 MILES) TO THE STATION ON THE LEFT. THE STATION IS 9.8 METERS WEST OF THE CENTERLINE OF HWY. 15, 31.7 METERS NORTH OF A GRAVEL DRIVEWAY, 25.0 METERS SOUTH OF A GRAVEL DRIVEWAY, 4.2 METERS EAST OF A GAS METER AND 1.35 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THE ELEVATION ON STATIONS 700002, 700002A, 700003 AND 700003A WERE ARRIVED AT BY LEVELING USING GOVERNMENT BENCH MARKS ON HWY. 15 AND DO NOT MATCH THE ELEVATIONS THAT WERE RUN FROM AN EXISTING BENCH MARK ON HWY. 167. THERE APPEARS TO BE AN ERROR OF 0.1829 METERS BETWEEN THE TWO BENCH LEVEL LINES.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	330	1.60	5.2
MK # 2	8" WILD CHERRY TREE	255	14.70	48.2
MK # 3	TELEPHONE JUNCTION BOX	55	13.70	44.9

AZ Mark Station	700002
Geodetic Azimuth	241 14 21.41505
Grid Azimuth	241 33 41.31535

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT 1990
Ref Mon # 2	STELL 1986
Ref Mon # 3	NORPHLET 1952

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700003	5/1/1995	AHTD	UNION	15	R70105, 070059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	463,169.6335	
Easting (M)	351,554.4371	
Elevation (M)*	44.936	
Northing (SFT)	1,519,582.3726	
Easting (SFT)	1,153,391.5157	
Elevation (SFT)*	147.428	

Convergence Angle	0	17	27.2795910
Scale Factor	1.000015031		
Elevation Adjust. Factor	0.9999929481		
Combined Adjust. Factor	1.0000079790		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	14	6.3295548
Longitude	92	31	11.1756612
Ellipsoid Height (M):	18.130		
Geoid Height (M):	-26.806		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 & HWY-129 IN THE SMALL VILLAGE OFOLD UNION ABOUT 7 MILES EAST OF EL DORADO GO NORTH AND EAST ON HWY-15 FOR 1.06 KM.(0.66 MI.) TO THE STATION ON THE LEFT BY THE NORTHWEST CORNER OF A BRIDGE.7.10 METERS NORTH OF THE CENTERLINE OF HWY-15, 0.75 METERS NORTH OF THE BACK OF THE PARAPET WALL AND 1.04 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "700003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVENFLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2ND GUARD RAIL POST	205	1.10	3.6
MK # 2	5TH GUARD RAIL POST	240	2.80	9.2
MK # 3				

AZ Mark Station	700003A
Geodetic Azimuth	88 00 58.864114
Grid Azimuth	88 18 26.047851

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT 1990
Ref Mon # 2	STELL 1986
Ref Mon # 3	NORPHLET 1952

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700003A	5/1/1995	AHTD	UNION	15	R70105, 070059

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	463,182.2649	
Easting (M)	351,981.8516	
Elevation (M)*	50.456	
Northing (SFT)	1,519,623.8141	
Easting (SFT)	1,154,793.7915	
Elevation (SFT)*	165.538	

Convergence Angle	0	17	18.0414211
Scale Factor	1.000014998		
Elevation Adjust. Factor	0.9999920819		
Combined Adjust. Factor	1.0000070798		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	14	6.8096760
Longitude	92	30	54.6698124
Ellipsoid Height (M):	23.652		
Geoid Height (M):	-26.804		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGEOF OLD UNION THAT IS ABOUT 7 MILES EAST OF EL DORADO GO NORTH AND EAST ON HWY-15 FOR 1.48 KM. (0.92 MI.) TO THE STATION ON THE RIGHT. 40 METERS NORTHWEST OF THE NORTHEAST CORNER OF A CHICKEN HOUSE, 34.4 METERS NORTH OF THE NORTH SIDE OF THE CHICKEN HOUSE, 10.3 METERS SOUTH OF THE CENTERLINE OF HWY-15 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "700003A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	35	28.20	92.5
MK # 2				
MK # 3				

AZ Mark Station	700003
Geodetic Azimuth	268 01 07.91058
Grid Azimuth	268 18 26.04785

Area Reference Monuments (used for Processing)

Ref Mon # 1	WARRPORT 1990
Ref Mon # 2	STELL 1986
Ref Mon # 3	NORPHLET 1952

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700004	7/24/1995	AHTD	UNION	15	070104

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	455,726.5100	
Easting (M)	330,228.4540	
Elevation (M)*	59.403	
Northing (SFT)	1,495,162.7249	
Easting (SFT)	1,083,424.5195	
Elevation (SFT)*	194.891	

Convergence Angle	0	25	7.1078382
Scale Factor	1.000032207		
Elevation Adjust. Factor	0.9999906778		
Combined Adjust. Factor	1.0000228845		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	33	10	0.4548000
Longitude	92	44	52.7513244
Ellipsoid Height (M):	32.564		
Geoid Height (M):	-26.839		

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 5.471 KM (3.40 MILES) TO THE JCT. OF HWY. 82 AND HWY. 15, GO SOUTH ON HWY. 15 FOR 6.759 KM (4.20 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 18.0 METERS EAST OF THE CENTERLINE OF NEWELL ROAD, 15.0 METERS NORTH OF THE CENTERLINE OF HWY. 15 AND 2.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "700004 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	3" STEEL FENCE CORNER POST	297	8.00	26.2
MK # 2	COMBINATION POLE	98	15.90	52.2
MK # 3	20" CONCRETE CULVERT	240	12.20	40.0

AZ Mark Station	700001A
Geodetic Azimuth	101 10 39.17474
Grid Azimuth	101 35 46.20314

Area Reference Monuments (used for Processing)

Ref Mon # 1	NORPHLET 1952
Ref Mon # 2	WYATT 1941
Ref Mon # 3	700001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700004A	10/27/2004	AHTD	UNION	15	070273, 070104

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	455,659.3100	
Easting (M)	330,554.0630	
Elevation (M)*	53.135	
Northing (SFT)	1,494,942.2529	
Easting (SFT)	1,084,492.7884	
Elevation (SFT)*	174.328	

Convergence Angle	0	25	0.0641779
Scale Factor	1.000032360		
Elevation Adjust. Factor	0.9999916614		
Combined Adjust. Factor	1.0000240211		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	9	58.3506900
Longitude	92	44	40.1664084
Ellipsoid Height (M):	26.576		
Geoid Height (M):	-26.186		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 82, SOUTH OF EL DORADO, GO SOUTH ON HIGHWAY 14 FOR 4.0 MILES TO THE STATION ON THE RIGHT, 13.2 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY, 12.0 METERS EAST OF THE CENTER OF A GRAVEL DRIVE AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700004A 1995" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	90	4.80	15.7
MK # 2	30" METAL CULVERT	240	5.50	18.0
MK # 3	METER POLE	330	8.60	28.2

AZ Mark Station	700023
Geodetic Azimuth	100 39 11
Grid Azimuth	101 04 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, SHRV
Ref Mon # 2	DQUA
Ref Mon # 3	CSAL

Comments

3-Wire Levels ran from NGS BM ElDorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700005	5/14/1996	AHTD	UNION	15	R70105

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	462,867.1028	
Easting (M)	356,140.1177	
Elevation (M)*	60.333	
Northing (SFT)	1,518,589.8198	
Easting (SFT)	1,168,436.3695	
Elevation (SFT)*	197.943	

Convergence Angle	0	15	48.1193268
Scale Factor	1.000015641		
Elevation Adjust. Factor	0.9999905319		
Combined Adjust. Factor	1.0000061727		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	13	57.2298852
Longitude	92	28	14.0059020
Ellipsoid Height (M):	33.548		
Geoid Height (M):	-26.785		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION, ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 5.79 KM. (3.60 MI.) TO THE STATION ON THE RIGHT. 32.72 METERS WEST OF THE CENTER OF A PAVED DRIVEWAY, 8.44 METERS SOUTH OF THE CENTER OF HWY-15 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700005 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	119	31.27	102.6
MK # 2	SOUTHEAST END OF HEADWALL	267	24.87	81.6
MK # 3	NORTHEAST END OF HEADWALL	294	29.28	96.1

AZ Mark Station	700005A
Geodetic Azimuth	276 21 02.02186
Grid Azimuth	276 36 50.23661

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL 1986
Ref Mon # 2	WARRPORT 1986
Ref Mon # 3	700003

Comments

ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NUMBER M-201, ELEVATION = 66.942 METERS DATUM OF NAVD88.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700005A	5/14/1996	AHTD	UNION	15	R70105

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	462,916.2565
Easting (M)	355,716.1985
Elevation (M)*	63.951
Northing (SFT)	1,518,751.0849
Easting (SFT)	1,167,045.5612
Elevation (SFT)*	209.813

Convergence Angle	0	15	57.2879891
Scale Factor			1.000015538
Elevation Adjust. Factor			0.9999899641
Combined Adjust. Factor			1.0000055019

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	13	58.7617788
Longitude	92	28	30.3875616
Ellipsoid Height (M):	37.164		
Geoid Height (M):	-26.787		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE LEFT AND THE JUNCTION OF "FRISBY ROAD" WITH HWY-15 ON THE RIGHT. 40.49 METERS EAST OF THE CENTER OF A DRIVEWAY, 10.89 METERS NORTH OF THE CENTER OF HWY-15 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700005A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE		24.82	81.4
MK # 2	LIGHT POLE		32.25	105.8
MK # 3	WATER METER		14.63	48.0

AZ Mark Station	700005
Geodetic Azimuth	96 20 53.04403
Grid Azimuth	96 36 50.23661

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL 1986
Ref Mon # 2	WARRPORT 1986
Ref Mon # 3	700003

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700006	5/14/1996	AHTD	UNION	15	R70105

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	464,921.3129
Easting (M)	362,047.9939
Elevation (M)*	48.027
Northing (SFT)	1,525,329.3407
Easting (SFT)	1,187,819.1267
Elevation (SFT)*	157.569

Convergence Angle	0	13	40.5868437
Scale Factor	1.000011157		
Elevation Adjust. Factor	0.9999924631		
Combined Adjust. Factor	1.0000036200		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	15	4.7283876
Longitude	92	24	26.1434664
Ellipsoid Height (M):	21.270		
Geoid Height (M):	-26.757		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 12.15 KM. (7.55 MI.) TO A CLEARCUT AREA AND THE STATION ON THE LEFT. 10.28 METERS NORTH-NORTHWEST OF THE CENTER OF HWY-15 AND 0.70 METERS SOUTH-SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700006 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	42	6.55	21.5
MK # 2				
MK # 3				

AZ Mark Station	700006A
Geodetic Azimuth	244 28 38.4453
Grid Azimuth	244 42 19.1438

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL 1986
Ref Mon # 2	WARRPORT 1986
Ref Mon # 3	700003

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700006A	5/14/1996	AHTD	UNION	15	R70105

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	464,680.9227	
Easting (M)	361,539.3223	
Elevation (M)*	51.091	
Northing (SFT)	1,524,540.6606	
Easting (SFT)	1,186,150.2599	
Elevation (SFT)*	167.621	

Convergence Angle	0	13	51.5641145
Scale Factor	1.000011674		
Elevation Adjust. Factor	0.9999919822		
Combined Adjust. Factor	1.0000036561		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	14	56.8595724
Longitude	92	24	45.7565688
Ellipsoid Height (M):	24.331		
Geoid Height (M):	-26.760		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 11.59 KM. (7.20 MI.) TO THE STATION ON THE RIGHT. 22.7 METERS SOUTHWEST OF A FIELD ENTRANCE, 11.7 METERS SOUTH-SOUTHEAST OF THE CENTER OF HWY-15 AND 0.77 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700006A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RAILROAD TIE FENCE CORNER POST	68	20.48	67.2
MK # 2	RAILROAD TIE FENCE POST	242	24.60	80.7
MK # 3				

AZ Mark Station	700006
Geodetic Azimuth	64 28 27.6915
Grid Azimuth	64 42 19.1438

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL 1986
Ref Mon # 2	WARRPORT 1986
Ref Mon # 3	700003

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700007	5/14/1996	AHTD	UNION	15	R70105

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	467,865.6571	
Easting (M)	367,543.8353	
Elevation (M)*	33.827	
Northing (SFT)	1,534,989.2433	
Easting (SFT)	1,205,850.0663	
Elevation (SFT)*	110.981	

Convergence Angle	0	11	41.9750690
Scale Factor	1.000004946		
Elevation Adjust. Factor	0.9999946915		
Combined Adjust. Factor	0.9999996374		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	16	40.9558080
Longitude	92	20	54.2196708
Ellipsoid Height (M):	7.100		
Geoid Height (M):	-26.727		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-15 AND HWY-129 IN THE SMALL VILLAGE OF OLD UNION LOCATED ABOUT 11.3 KM. (7.0 MI.) EAST OF EL DORADO, GO EAST ON HWY-15 FOR 17.54 KM. (10.90 MI.) TO THE JUNCTION WITH HWY-275 SOUTH, CONTINUE EAST ON HWY-15 FOR 1.29 KM. (0.80 MI.) TO THE STATION ON THE LEFT NEAR THE SOUTH END OF THE BRIDGE OVER THE OUACHITA RIVER. 12.0 METERS SOUTH OF THE BRIDGE END, 6.60 METERS WEST OF THE CENTER OF HWY-15 AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700007 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	4th GUARD RAIL POST SOUTH OF THE BRIDGE	25	4.04	13.3
MK # 2	7th GUARD RAIL POST SOUTH OF THE BRIDGE	51	1.47	4.8
MK # 3	11th GUARD RAIL POST SOUTH OF THE BRIDGE	192	8.45	27.7

AZ Mark Station	060003
Geodetic Azimuth	23 29 41.05288
Grid Azimuth	23 41 22.95541

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL 1986
Ref Mon # 2	WARRPORT 1986
Ref Mon # 3	700003

Comments

ELEVATION BY 3-WIRE USING USC&GS BENCH MARK NUMBER V-201, ELEVATION = 33.623 METERS DATUM OF NAVD88.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700008	5/16/1996	AHTD	UNION	167	R70058

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	439,615.5875
Easting (M)	332,318.4507
Elevation (M)*	60.399
Northing (SFT)	1,442,305.4733
Easting (SFT)	1,090,281.4503
Elevation (SFT)*	198.159

Convergence Angle	0	24	19.5017710
Scale Factor			1.000073351
Elevation Adjust. Factor			0.9999905215
Combined Adjust. Factor			1.0000638718

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	1	18.0248412
Longitude	92	43	27.6935088
Ellipsoid Height (M):	33.661		
Geoid Height (M):	-26.738		

Location Description

TO REACH THE STATION FROM THE ARKANSAS AND LOUISIANA STATE LINE IN THE SMALL TOWN OF JUNCTION CITY GO NORTH ON HWY-167 FOR 0.80 KM. (0.50 MI.) TO THE STATION ON THE RIGHT.12.25 METERS SOUTHEAST OF THE CENTER OF HWY-167 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700008 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	72	23.40	76.8
MK # 2	METAL POLE	188	29.55	96.9
MK # 3	COMBINATION POLE	281	23.40	76.8

AZ Mark Station	700008A
Geodetic Azimuth	21 01 53.9589
Grid Azimuth	21 26 13.4236

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL 1986
Ref Mon # 2	WYATT 1941
Ref Mon # 3	

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING USC&GS BENCH MARK # JUNCTION 1934. ELEVATION = 61.106 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700008A	5/16/1996	AHTD	UNION	167	R70058

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	439,954.6957	
Easting (M)	332,451.5989	
Elevation (M)*	52.261	
Northing (SFT)	1,443,418.0308	
Easting (SFT)	1,090,718.2874	
Elevation (SFT)*	171.460	

Convergence Angle	0	24	16.6822678
Scale Factor	1.000072417		
Elevation Adjust. Factor	0.9999917986		
Combined Adjust. Factor	1.0000642150		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	1	29.0618508
Longitude	92	43	22.6558992
Ellipsoid Height (M):	25.510		
Geoid Height (M):	-26.740		

Location Description

TO REACH THE STATION FROM THE ARKANSAS AND LOUISIANA STATE LINE IN THE SMALL TOWN OF JUNCTION CITY GO NORTH ON HWY-167 FOR 1.17 KM. (0.73 MI.) TO THE STATION ON THE LEFT JUST SOUTH OF THE ENTRANCE TO A CEMETERY. 26.7 METERS NORTHWEST OF THE CENTER OF HWY-167 AND 0.96 METERS SOUTH OF A WITNESS POST SET NEXT TO A CHAIN LINK FENCE.THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700008A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST	82	9.95	32.6
MK # 2	COMBINATION POLE	92	16.55	54.3
MK # 3	GUY POLE	162	2.70	8.9

AZ Mark Station	700008
Geodetic Azimuth	201 01 56.70431
Grid Azimuth	201 26 13.42361

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL 1986
Ref Mon # 2	WYATT 1941
Ref Mon # 3	

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELING USING USC&GS BENCH MARK # JUNCTION 1934. ELEVATION = 61.106 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700009	7/23/1997	AHTD	UNION	82	070170, 070074, 7997

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	457,817.2130
Easting (M)	340,732.0600
Elevation (M)*	81.936
Northing (SFT)	1,502,021.9730
Easting (SFT)	1,117,885.1002
Elevation (SFT)*	268.818
Convergence Angle	0 21 20.5102601
Scale Factor	1.000027163
Elevation Adjust. Factor	0.9999871417
Combined Adjust. Factor	1.0000143044

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 11 10.6181052
Longitude	92 38 7.8891684
Ellipsoid Height (M):	55.741
Geoid Height (M):	-26.162

Location Description

THE STAION IS LOCATED ON THE SOUTH SIDE OF EL DORADO, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167. THE STATION IS LOCATED 8.45 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.90 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700009 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN TOP 0F GUARD RAIL	282	3.90	12.8
MK # 2	PUNCH POINT IN TOP OF GUARD RAIL	37	2.15	7.1
MK # 3	SW CORNER OF BRIDGE = TBM 1	62	11.40	37.4

AZ Mark Station	700009A
Geodetic Azimuth	71 07 18.693109
Grid Azimuth	71 28 39.041954

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

Vertical established from GPS 700015 on Job # 070076 which is based on NGS N 198 AZ MARK STATION REPORTED DESTROYED BY RE 76 ON 10/24/2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700010	6/23/1999	AHTD	UNION	82	070170

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	455,125.0199
Easting (M)	347,300.2680
Elevation (M)*	69.880
Northing (SFT)	1,493,189.3361
Easting (SFT)	1,139,434.2959
Elevation (SFT)*	229.265

Convergence Angle	0	18	58.2832704
Scale Factor			1.000033371
Elevation Adjust. Factor			0.9999890337
Combined Adjust. Factor			1.0000224043

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	9	44.4851208
Longitude	92	33	53.7720408
Ellipsoid Height (M):	43.734		
Geoid Height (M):	-26.146		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 7.56 KM (4.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.25 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 720.667 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700010A
Geodetic Azimuth	90 30 26.508239
Grid Azimuth	90 49 24.615217

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700010A	6/23/1999	AHTD	UNION	82	070170

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	455,114.6619
Easting (M)	348,020.8790
Elevation (M)*	64.315
Northing (SFT)	1,493,155.3533
Easting (SFT)	1,141,798.5005
Elevation (SFT)*	211.007

Convergence Angle	0	18	42.7175873
Scale Factor	1.000033387		
Elevation Adjust. Factor	0.9999899070		
Combined Adjust. Factor	1.0000232936		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	9	44.2771164
Longitude	92	33	25.9608168
Ellipsoid Height (M):	38.171		
Geoid Height (M):	-26.144		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 8.29 KM (5.15 MI) TO THE STATION ON THE LEFT SET ON A POND LEVEE. THE STATION IS 19.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.64 METERS SOUTH OF A WITNESSS POST SET NEXT TO A CHAIN LINK FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 720.667 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700010
Geodetic Azimuth	270 30 41.72133
Grid Azimuth	270 49 24.61522

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700011	6/23/1999	AHTD	UNION	82	070170

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	453,785.4560
Easting (M)	350,221.7870
Elevation (M)*	70.293
Northing (SFT)	1,488,794.4502
Easting (SFT)	1,149,019.3128
Elevation (SFT)*	230.620

Convergence Angle	0	17	55.0305539
Scale Factor	1.000036533		
Elevation Adjust. Factor	0.9999889689		
Combined Adjust. Factor	1.0000255015		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	9	1.5143832
Longitude	92	32	0.7583388
Ellipsoid Height (M):	44.156		
Geoid Height (M):	-26.137		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 11.10 KM (6.9 MI) TO THE STATION ON THE RIGHT. THE STATION IS 19.35 METERS EAST OF THE CENTER OF A PASTURE ENTRANCE, 17.25 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.35 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700011 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 457.929 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST END OF A PLASTIC CULVERT	308	16.25	53.3
MK # 2	METAL GATE POST	289	16.80	55.1
MK # 3	NONE			

AZ Mark Station	700011A
Geodetic Azimuth	107 53 30.72585
Grid Azimuth	108 11 25.64830

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700011A	6/23/1999	AHTD	UNION	82	070170

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	453,642.4969
Easting (M)	350,656.8430
Elevation (M)*	65.543
Northing (SFT)	1,488,325.4252
Easting (SFT)	1,150,446.6591
Elevation (SFT)*	215.036
Convergence Angle	0 17 45.6191239
Scale Factor	1.000036871
Elevation Adjust. Factor	0.9999897143
Combined Adjust. Factor	1.0000265849

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 8 56.9474988
Longitude	92 31 43.9429260
Ellipsoid Height (M):	39.407
Geoid Height (M):	-26.136

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 11.59 KM (7.2 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.50 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700011A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 457.929 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COBINATION POLE=TBM 901	295	28.08	92.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700011
Geodetic Azimuth	287 53 39.92103
Grid Azimuth	288 11 25.64830

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700012	6/24/1999	AHTD	UNION	82	070170

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	451,605.3539	
Easting (M)	355,936.5940	
Elevation (M)*	64.087	
Northing (SFT)	1,481,641.8986	
Easting (SFT)	1,167,768.6421	
Elevation (SFT)*	210.259	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	7	51.6638532	
Longitude	92	28	19.8602544	
Ellipsoid Height (M):	37.966			
Geoid Height (M):	-26.121			

Convergence Angle	0	15	51.3959533	
Scale Factor	1.000041763			
Elevation Adjust. Factor	0.9999899428			
Combined Adjust. Factor	1.0000317053			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 17.22 KM (10.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.30 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 1.49 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 750.624 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700012A
Geodetic Azimuth	86 56 34.27592
Grid Azimuth	87 12 25.48199

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700012A	6/24/1999	AHTD	UNION	82	070170

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	451,641.9310	
Easting (M)	356,686.3520	
Elevation (M)*	61.397	
Northing (SFT)	1,481,761.9020	
Easting (SFT)	1,170,228.4732	
Elevation (SFT)*	201.433	

Convergence Angle	0	15	35.2113435
Scale Factor	1.000041665		
Elevation Adjust. Factor	0.9999903649		
Combined Adjust. Factor	1.0000320295		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	7	52.9623660
Longitude	92	27	50.9431932
Ellipsoid Height (M):	35.277		
Geoid Height (M):	-26.120		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 18.03 KM (11.2 MI) TO THE STATION ON THE LEFT. THE STATION IS 56.00 METERS WEST OF THE CENTER OF THE OLD STRONG HIGHWAY 15.40 METERS NORTH OF THE CENTER OF U.S. HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "700012A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 750.624 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700012
Geodetic Azimuth	266 56 50.08078
Grid Azimuth	267 12 25.48199

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700013	6/24/1999	AHTD	UNION	82	070170

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	449,423.7889
Easting (M)	365,039.7450
Elevation (M)*	39.067
Northing (SFT)	1,474,484.5474
Easting (SFT)	1,197,634.5634
Elevation (SFT)*	128.172

Convergence Angle	0	12	34.6747209
Scale Factor			1.000047087
Elevation Adjust. Factor			0.9999938692
Combined Adjust. Factor			1.0000409559

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	6	42.0765264	
Longitude	92	22	28.3782000	
Ellipsoid Height (M):	12.973			
Geoid Height (M):	-26.094			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND U.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EAST ON U.S. HIGHWAY 82 FOR 26.55 KM (16.50 MI) TO THE STATION ON THE RIGHT NEXT TO A CAR WASH. THE STATION IS 13.50 METERS EAST OF THE CENTER OF A CONCRETE DRIVE TO A CAR WASH, 11.55 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 82 AND 0.50 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE DITCH. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700013 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 275.982 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700013A
Geodetic Azimuth	288 45 36.37184
Grid Azimuth	288 58 11.11417

Area Reference Monuments (used for Processing)

Ref Mon # 1	S 197
Ref Mon # 2	MAGNOLIA 2
Ref Mon # 3	STELL

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700013A	6/24/1999	AHTD	UNION	82	070241, 070170

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	449,513.5079
Easting (M)	364,778.7340
Elevation (M)*	
Northing (SFT)	1,474,778.9005
Easting (SFT)	1,196,778.2298
Elevation (SFT)*	
Convergence Angle	0 12 40.3161632
Scale Factor	1.000046864
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 6 44.9575164
Longitude	92 22 38.4577716
Ellipsoid Height (M):	10.561
Geoid Height (M):	-26.095

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND iU.S. HIGHWAY 167, LOCATED ON THE SOUTH SIDE OF EL DORADO, GO EASTi ON U.S. HIGHWAY 82 FOR 26.88 KM (16.70 MI) TO THE STATION ON THEi RIGHT. THE STATION IS 15.30 METERS SOUTHWEST OF THE CENTER OF iU.S. HIGHWAY 82, 14.80 METERS WEST-NORTHWEST OF THE CENTER OF A iGRAVEL ROAD AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE iSTATION MARK IS A STANDARD 64mm CAP STAMPED "700013A 1999" SET ONi TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE iGROUND. THE SHOT DISSTANCE IS 275.982 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	700021
Geodetic Azimuth	107 23 22
Grid Azimuth	107 36 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	1ULM CORS
Ref Mon # 3	LROC CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700014	2/2/2000	AHTD	UNION	167	070076,7997,070373

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	465,291.9589	
Easting (M)	339,571.9848	
Elevation (M)*	61.131	
Northing (SFT)	1,526,545.3685	
Easting (SFT)	1,114,079.0868	
Elevation (SFT)*	200.561	

Convergence Angle	0	21	46.5965257
Scale Factor	1.000010615		
Elevation Adjust. Factor	0.9999904066		
Combined Adjust. Factor	1.0000010215		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	15	12.9970980
Longitude	92	38	54.4975296
Ellipsoid Height (M):	34.913		
Geoid Height (M):	-26.169		

Location Description

THE STATION IS LOCATED ON THE NORTH SIDE OF EL DORADO, AT THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HWY 7. THE STATION IS 12.40 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 167, 3.75 METERS SOUTHEAST OF THE SOUTHEAST CORNER OF A OVERPASS FOR HIGHWAY 7, 3.70 METERS SOUTHEAST OF A WITNESS POST AND 1.4 METERS NORTHWEST OF THE CENTER OF A CONCRETE DITCH. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700014 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.182 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	288	6.50	21.3
MK # 2	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	303	5.50	18.0
MK # 3	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	324	4.96	16.3

AZ Mark Station	700014A
Geodetic Azimuth	126 55 49.54451
Grid Azimuth	127 17 36.02820

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	700009

Comments

3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700014A	2/2/2000	AHTD	UNION	167	070076,7997,070373

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	464,902.2578	
Easting (M)	340,083.6639	
Elevation (M)*	49.386	
Northing (SFT)	1,525,266.8241	
Easting (SFT)	1,115,757.8206	
Elevation (SFT)*	162.027	

Convergence Angle	0	21	35.4801835
Scale Factor	1.000011438		
Elevation Adjust. Factor	0.9999922498		
Combined Adjust. Factor	1.0000036877		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	15	0.4529160	
Longitude	92	38	34.6359480	
Ellipsoid Height (M):	23.194			
Geoid Height (M):	-26.167			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO SOUTHEAST ON U.S. HIGHWAY 167 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.42 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 167 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700014A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.182 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700014
Geodetic Azimuth	306 56 00.43502
Grid Azimuth	307 17 36.02820

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	700009

Comments

3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700015	2/2/2000	AHTD	UNION	7	070076,7997

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	469,093.9145	
Easting (M)	337,401.0806	
Elevation (M)*	50.384	
Northing (SFT)	1,539,018.9512	
Easting (SFT)	1,106,956.7119	
Elevation (SFT)*	165.302	

Convergence Angle	0	22	34.0749419
Scale Factor	1.000002741		
Elevation Adjust. Factor	0.9999920931		
Combined Adjust. Factor	0.9999948341		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	17	15.9467676
Longitude	92	40	19.3272708
Ellipsoid Height (M):	24.103		
Geoid Height (M):	-26.172		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO NORTHWEST ON STATE HIGHWAY 7 FOR 4.51 KM (2.80 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 11.10 METERS NORTHEAST OF THE CENTER OF THE SOUTH BOUND LANE OF STATE HIGHWAY 7, 8.30 METERS SOUTHWEST OF THE CENTET OF NORTH BOUND LANE OF STATE HIGHWAY 7 AND 0.89 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700015 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 868.109 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700015A
Geodetic Azimuth	328 28 31.32421
Grid Azimuth	328 51 05.49401

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	700009

Comments

3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700015A	2/2/2000	AHTD	UNION	7	070076,7997,070368

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	469,836.8788
Easting (M)	336,952.0807
Elevation (M)*	43.156
Northing (SFT)	1,541,456.4932
Easting (SFT)	1,105,483.6181
Elevation (SFT)*	141.588

Convergence Angle	0	22	43.8932257
Scale Factor			1.000001244
Elevation Adjust. Factor			0.9999932274
Combined Adjust. Factor			0.9999944714

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	17	39.9654600
Longitude	92	40	36.8709024
Ellipsoid Height:			16.948
Grid Northing (Meters)			469,836.8641
Grid Easting (Meters)			336,952.0472

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	17	39.9659424
Longitude	92	40	36.8696100
Ellipsoid Height (M):	16.937		
Geoid Height (M):	-26.266		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167 AND STATE HIGHWAY 7, LOCATED ON THE NORTH SIDE OF EL DORADO, GO NORTHWEST ON STATE HIGHWAY 7 FOR 5.39 KM (3.35 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 10.15 SOUTHWEST OF THE SOUTH BOUND LANE OF STATE HIGHWAY 7, 9.70 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF STATE HIGHWAY 7 AND 0.57 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700015A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 868.109 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	700015
Geodetic Azimuth	148 28 21.69464
Grid Azimuth	148 51 05.49401

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	700009

Comments

3-wire level elevations from NGS BM N198-El Dorado from Job 070076-070074 by Garver Engr, S5103, & S5104 in Mar 2006 - Dec 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700016	1/23/2003	AHTD	UNION	7	070249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	475,805.4231	
Easting (M)	331,405.5460	
Elevation (M)*	46.115	
Northing (SFT)	1,561,038.2923	
Easting (SFT)	1,087,286.3622	
Elevation (SFT)*	151.295	

Convergence Angle	0	24	44.8048906	
Scale Factor			0.999989729	
Elevation Adjust. Factor			0.9999927631	
Combined Adjust. Factor			0.9999824922	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	20	52.4501808	
Longitude	92	44	12.9026220	
Ellipsoid Height (M):			19.869	
Geoid Height (M):			-26.158	

Location Description

THE STATION IS SOUTHWEST OF SMACKOVER, AND LOCATED AT THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 172 IN THE MEDIAN OF HIGHWAY 7. 19.70 METERS NORTH FROM THE CENTER OF THE SOUTH BOUND LANE, 18.0 METERS SOUTH OF THE CENTER OF THE NORTH BOUND LANE, 12.80 METERS WEST FROM THE CENTER OF THE CROSS OVER ROAD, AND 0.50 METERS EAST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	700016
Geodetic Azimuth	122 12 41
Grid Azimuth	122 37 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	Winnfield CORS
Ref Mon # 3	Vicksburg CORS

Comments

ELEV BY 3WR FROM NGS PT N 198

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700016A	1/23/2003	AHTD	UNION	7	070249

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	475,566.9071	
Easting (M)	331,778.1600	
Elevation (M)*	51.149	
Northing (SFT)	1,560,255.7610	
Easting (SFT)	1,088,508.8466	
Elevation (SFT)*	167.810	

Convergence Angle	0	24	36.7025505
Scale Factor	0.999990170		
Elevation Adjust. Factor	0.9999919732		
Combined Adjust. Factor	0.9999821433		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	20	44.7952416
Longitude	92	43	58.4261616
Ellipsoid Height (M):	24.895		
Geoid Height (M):	-26.159		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 172, SOUTHWEST OF SMACKOVER, GO SOUTH ON HIGHWAY 7 0.25 MILES TO THE STATION ON THE LEFT IN THE MEDIAN, 19.0 METERS NORTH OF THE CENTER OF THE SOUTH BOUND LANE, 18.70 METERS SOUTH OF THE CENTER OF THE NORTH BOUND LANE, AND 0.50 SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED 700016A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	700016
Geodetic Azimuth	302 12 49
Grid Azimuth	302 37 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	Winnfield CORS
Ref Mon # 3	Vicksburg CORS

Comments

ELEV BY 3WR FROM NGS PT N 198

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700017	1/23/2003	AHTD	UNION	160	070243

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	472,197.4551
Easting (M)	319,460.4180
Elevation (M)*	
Northing (SFT)	1,549,201.1506
Easting (SFT)	1,048,096.3881
Elevation (SFT)*	
Convergence Angle	0 29 2.6995351
Scale Factor	0.999996815
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	18	52.3097928
Longitude	92	51	53.6832828
Ellipsoid Height (M):	28.713		
Geoid Height (M):	-26.172		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 160, SOUTH WEST OF SMACKOVER, GO WEST ON HIGHWAY 160 7.65 MILES TO THE STATION ON THE LEFT. 11.30 METERS SOUTH OF THE CENTER OF THE ROAD AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "700017 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	UNDER GROUND CABLE MARKER	86	13.60	44.6
MK # 2	POWER POLE WITH GUY	261	29.10	95.5
MK # 3				

AZ Mark Station	700017
Geodetic Azimuth	66 54 50
Grid Azimuth	67 23 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	Winnfield CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700017A	1/23/2003	AHTD	UNION	160	070243

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	472,368.2381
Easting (M)	319,870.6540
Elevation (M)*	
Northing (SFT)	1,549,761.4612
Easting (SFT)	1,049,442.3040
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	18	57.9652272
Longitude	92	51	37.8796896
Ellipsoid Height (M):	23.211		
Geoid Height (M):	-26.171		

Convergence Angle	0	28	53.8544112
Scale Factor	0.999996474		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 160, SOUTHWEST OF SMACKOVER, GO WEST ON HIGHWAY 160 7.35 MILES TO THE STATION ON THE LEFT. 9.10 METERS SOUTH OF THE CENTER OF THE ROAD AND EAST 23.90 METERS OF A PAVED COUNTY ROAD, AND 5.75 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "700017A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	UNDER GROUND CABLE MARKER AND R/W MKR	80	13.90	45.6
MK # 2	POWER POLE	71	32.30	106.0
MK # 3				

AZ Mark Station	700017
Geodetic Azimuth	246 54 58
Grid Azimuth	247 23 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	AHTD HOPE 1
Ref Mon # 3	Winnfield CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700018	10/21/2003	AHTD	UNION	275	070241

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	439,413.6679
Easting (M)	367,414.7560
Elevation (M)*	
Northing (SFT)	1,441,643.0088
Easting (SFT)	1,205,426.5786
Elevation (SFT)*	
Convergence Angle	0 11 42.6704849
Scale Factor	1.000073401
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 1 17.4416052
Longitude	92 20 55.4621712
Ellipsoid Height (M):	24.361
Geoid Height (M):	-26.046

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA ìSTATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON ìHIGHWAY 275 0.75 MILES TO THE STATION MARK ON THE LEFT, WEST ì11.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 0.50 ìMETERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm ìCAP STAMPED "700018 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN ìFLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GATE POST WITH LOCK	333	27.50	90.2
MK # 2				
MK # 3				

AZ Mark Station	700018A
Geodetic Azimuth	134 08 24
Grid Azimuth	134 20 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	1ULM CORS
Ref Mon # 3	LROC CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700018A	10/21/2003	AHTD	UNION	275	070241

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	438,315.0069
Easting (M)	368,539.2130
Elevation (M)*	
Northing (SFT)	1,438,038.4851
Easting (SFT)	1,209,115.7347
Elevation (SFT)*	

Convergence Angle	0	11	18.3448794
Scale Factor	1.000076430		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	0	41.9038056
Longitude	92	20	11.9995836
Ellipsoid Height (M):	26.388		
Geoid Height (M):	-26.038		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA ìSTATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO EAST ALONGì THE STATE LINE ON A GRAVEL ROAD 0.50 MILES TO WHERE THE POWER ìLINE CROSSES THE GRAVEL ROAD AND TURN LEFT ON THE POWER LINE ìRIGHT OF WAY AND GO 0.05 MILES TO A METAL GATE AND GO THROUGH THEì GATE FOR ANOTHER 0.05 MILE TO THE STATION MARK ON THE LEFT, ìNORTHWEST 6.65 METERS OF A WITNESS POST. THE STATION MARK IS A ìSTANDARD 64mm CAP STAMPED "700018A 2003" ON TOP OF A 1.22 METER ìIRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH EAST CHAINLINK GATE POST	155	7.50	24.6
MK # 2	GUY	225	8.20	26.9
MK # 3	METAL POWER POLE WITH GUY	279	15.10	49.5

AZ Mark Station	700018
Geodetic Azimuth	314 08 48
Grid Azimuth	314 20 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	1ULM CORS
Ref Mon # 3	LROC CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700019	10/21/2003	AHTD	UNION	275	070241

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	444,406.0109
Easting (M)	366,933.9670
Elevation (M)*	
Northing (SFT)	1,458,022.0541
Easting (SFT)	1,203,849.1901
Elevation (SFT)*	
Convergence Angle	0 11 53.4105189
Scale Factor	1.000059966
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	3	59.4284544
Longitude	92	21	14.6514024
Ellipsoid Height (M):	27.726		
Geoid Height (M):	-26.068		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA iSTATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON iHIGHWAY 275 3.95 MILES TO THE STATION MARK ON THE RIGHT, WEST i12.60 METERS OF A DIRT DRIVE AND EAST 34.1 METERS OF THE iCENTERLINE OF THE HIGHWAY AND EAST 24.80 METERS OF A WITNESS iPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700019 i2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE iGROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	WATER WELL	169	9.30	30.5
MK # 2				
MK # 3				

AZ Mark Station	700019A
Geodetic Azimuth	217 00 41
Grid Azimuth	217 12 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	1ULM CORS
Ref Mon # 3	LROC CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700019A	10/21/2003	AHTD	UNION	275	070241

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	444,139.6509	
Easting (M)	366,731.7190	
Elevation (M)*		
Northing (SFT)	1,457,148.1713	
Easting (SFT)	1,203,185.6481	
Elevation (SFT)*		

Convergence Angle	0	11	57.7540520
Scale Factor	1.000060669		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	33	3	50.7601980	
Longitude	92	21	22.4119980	
Ellipsoid Height (M):	33.482			
Geoid Height (M):	-26.067			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF THE ARKANSAS LOUISIANA ìSTATE LINE AND STATE HIGHWAY 275, SOUTH OF STRONG, GO NORTH ON ìHIGHWAY 275 3.75 MILES TO THE STATION MARK ON THE LEFT, ìNORTHWEST 14.00 METERS OF THE CENTERLINE OF THE HIGHWAY AND ìNORTHWEST 3.55 METERS OF A WITNESS POST. THE STATION MARK IS A ìSTANDARD 64mm CAP STAMPED "700019A 2003" ON TOP OF A 1.22 METER ìIRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	700019
Geodetic Azimuth	37 00 37
Grid Azimuth	37 12 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	1ULM CORS
Ref Mon # 3	LROC CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700020	10/21/2003	AHTD	UNION	275	070241

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	447,609.2689	
Easting (M)	366,723.1550	
Elevation (M)*		
Northing (SFT)	1,468,531.4097	
Easting (SFT)	1,203,157.5510	
Elevation (SFT)*		

Convergence Angle	0	11	58.1994587
Scale Factor	1.000051664		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	5	43.3758768
Longitude	92	21	23.2078068
Ellipsoid Height (M):	27.391		
Geoid Height (M):	-26.082		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 129 AND ìHIGHWAY 275, SOUTH OF STRONG, GO NORTH ON HIGHWAY 275 0.1 MILES ìTO THE STATION MARK ON THE LEFT, WEST 21.50 METERS OF THE ìCENTERLINE OF THE HIGHWAY AND EAST 0.50 METERS OF A WITNESS POST.ì THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700020 2003" ìON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	185	20.20	66.3
MK # 2	UNDER GROUND CABLE MARKER	13	20.70	67.9
MK # 3				

AZ Mark Station	700020A
Geodetic Azimuth	151 06 44
Grid Azimuth	151 18 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	1ULM CORS
Ref Mon # 3	LROC CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700020A	10/21/2003	AHTD	UNION	129	070241

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	446,970.4959
Easting (M)	367,072.7020
Elevation (M)*	
Northing (SFT)	1,466,435.7020
Easting (SFT)	1,204,304.3565
Elevation (SFT)*	
Convergence Angle	0 11 50.6079045
Scale Factor	1.000053297
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	5	22.6818852
Longitude	92	21	9.6439680
Ellipsoid Height (M):	14.003		
Geoid Height (M):	-26.078		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 129 AND ìSTATE HIGHWAY 275, SOUTH OF STRONG, GO SOUTH ON HIGHWAY 129 0.30ì MILES TO THE STATION MARK ON THE RIGHT, NORTHWEST 7.80 METERS ìOF A DIRT TURN IN, SOUTHWEST 13.80 METERS OF THE CENTERLINE OF ìTHE HIGHWAY AND NORTHEAST 0.50 METERS OF A WITNESS POST. THE ìSTATION MARK IS A STANDARD 64mm CAP STAMPED "700020A 2003" ON ìTOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	700020A
Geodetic Azimuth	331 06 52
Grid Azimuth	331 18 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	1ULM CORS
Ref Mon # 3	LROC CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700021	10/22/2003	AHTD	UNION	82	070241

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	449,422.3510
Easting (M)	365,066.0870
Elevation (M)*	
Northing (SFT)	1,474,479.8299
Easting (SFT)	1,197,720.9871
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	6	42.0329808
Longitude	92	22	27.3620280
Ellipsoid Height (M):	13.469		
Geoid Height (M):	-26.094		

Convergence Angle	0	12	34.1059789
Scale Factor	1.000047090		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 167 AND ìHIGHWAY 82, SOUTH OF EL DORADO, GO EAST ON HIGHWAY 82 FOR 16.50 iMILES TO THE STATION ON THE RIGHT IN FRONT OF A CAR WASH, EAST i13.20 METERS OF A CONC DRIVE TO STRONG CAR WASH, SOUTH 12 .30 iMETERS OF THE CENTERLINE OF THE HIGHWAY, AND NORTH 0.50 METERS OFì A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPEDì "700021 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH iTHE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	DROP INLET	18	3.25	10.7
MK # 2	VACUME CLEANER PEDESTAL	188	9.80	32.2
MK # 3				

AZ Mark Station	700013A
Geodetic Azimuth	287 23 28
Grid Azimuth	287 36 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE CORS, 700013A
Ref Mon # 2	1ULM CORS
Ref Mon # 3	LROC CORS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700022	10/20/2004	AHTD	UNION	167	68,070280,070281,070373,07(

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	475,030.1281	
Easting (M)	350,146.4280	
Elevation (M)*	34.055	
Northing (SFT)	1,558,494.6786	
Easting (SFT)	1,148,772.0725	
Elevation (SFT)*	111.729	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	20	31.0660440	
Longitude	92	32	7.9545516	
Ellipsoid Height (M):	12.024			
Geoid Height (M):	-26.162			

Convergence Angle	0	17	59.0582072
Scale Factor	0.999990966		
Elevation Adjust. Factor	0.9999946557		
Combined Adjust. Factor	0.9999856218		

Location Description

The station is near the south end of the highway 167 bridge over the Ouchita river north of Calion. 10.25 meters southeast of the center of Hwy-167 and 3.65 meters northwest of a witness post. The station mark is a standard 64mm cap stamped "700022 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW corner of bridge	121	3.70	12.1
MK # 2	Chain link fence gate post	319	12.75	41.8
MK # 3	end of a 15in. Pipe	289	10.90	35.8

AZ Mark Station	070004
Geodetic Azimuth	034 36 50
Grid Azimuth	034 54 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORS Hope
Ref Mon # 2	1ULM
Ref Mon # 3	UAM AFRC SIS

Comments

3-Wire Elevations were ran from NGS A-201 in Job # 070268 by S5104 in April 2005(elev. 111.8216'). Updated elevation by Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700023	10/27/2004	AHTD	UNION	15	070273

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	455,722.5080
Easting (M)	330,231.0960
Elevation (M)*	58.393
Northing (SFT)	1,495,149.5950
Easting (SFT)	1,083,433.1875
Elevation (SFT)*	191.579

Convergence Angle	0	25	7.0501399
Scale Factor			1.000032217
Elevation Adjust. Factor			0.9999908363
Combined Adjust. Factor			1.0000230530

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	10	0.3255312
Longitude	92	44	52.6482348
Ellipsoid Height (M):	31.806		
Geoid Height (M):	-26.186		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 15, SOUTH OF EL DORADO, GO SOUTH ON HIGHWAY 15 FOR 4.20 MILES TO THE STATION MARK ON THE RIGHT, NORTH OF THE CENTERLINE OF THE HIGHWAY 11.45 METERS, EAST 17.6 METERS OF THE CENTERLINE OF HIGHWAY 335, AND SOUTH 5.8 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700023 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	82	12.90	42.3
MK # 2	FENCE CORNER	336	6.65	21.8
MK # 3				

AZ Mark Station	700004A
Geodetic Azimuth	280 39 18
Grid Azimuth	281 04 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, SHRV
Ref Mon # 2	CSAL
Ref Mon # 3	DQUA

Comments

3-Wire Levels ran from NGS BM ElDorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700024	10/27/2004	AHTD	UNION	82	070273,070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	458,642.3860	
Easting (M)	335,400.5830	
Elevation (M)*	74.732	
Northing (SFT)	1,504,729.2281	
Easting (SFT)	1,100,393.4127	
Elevation (SFT)*	245.183	

Convergence Angle	0	23	15.8164684
Scale Factor	1.000025346		
Elevation Adjust. Factor	0.9999882722		
Combined Adjust. Factor	1.0000136179		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	11	36.2787612
Longitude	92	41	33.9069048
Ellipsoid Height (M):	48.135		
Geoid Height (M):	-26.172		

Location Description

THE STATION MARK IS LOCATED AT THE NORTHEAST CORNER OF THE STATE HIGHWAY 82 OVERPASS OVER STATE HIGHWAY 15, WEST OF EL DORADO, SOUTHEAST 9.5 METERS OF THE CENTERLINE OF HIGHWAY 15 AND SOUTHEAST 1.75 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "700024 2004" ON TOP OF A 1.22 METERE IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF BRIDGE	288	1.90	6.2
MK # 2				
MK # 3				

AZ Mark Station	700024A
Geodetic Azimuth	295 31 16
Grid Azimuth	295 54 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM,SHRV
Ref Mon # 2	CSAL
Ref Mon # 3	DQUA

Comments

3-Wire Levels ran from NGS BM ElDorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700024A	10/27/2004	AHTD	UNION	82	070273

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	458,795.0340
Easting (M)	335,086.3420
Elevation (M)*	72.248
Northing (SFT)	1,505,230.0407
Easting (SFT)	1,099,362.4404
Elevation (SFT)*	237.033

Convergence Angle	0	23	22.6285760
Scale Factor	1.000025002		
Elevation Adjust. Factor	0.9999886621		
Combined Adjust. Factor	1.0000136638		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	11	41.1641880
Longitude	92	41	46.0781052
Ellipsoid Height (M):	45.653		
Geoid Height (M):	-26.173		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 15 AND STATE HIGHWAY 82, WEST OF EL DORADO, GO WEST ON HIGHWAY 82 0.2 MILES TO THE STATION MARK IN THE MEDIAN, 5.7 METERS SOUTHWEST OF THE EDGE OF THE PAVEMENT OF THE WEST BOUND LANE, NORTHEAST 4.2 METERS OF THE EDGE OF THE PAVEMENT OF THE EAST BOUND LANE AND SOUTHWEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "700024A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	700024
Geodetic Azimuth	115 31 10
Grid Azimuth	115 54 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	IULM,SHRV
Ref Mon # 2	CSAL
Ref Mon # 3	DQUA

Comments

3-Wire Levels ran from NGS BM ElDorado/ Z121/ Y121 by S5105 in Job 070273 in July 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700025	9/20/2005	AHTD	Union	167	001914,070280,070281,070373

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	468,792.6770
Easting (M)	343,268.1270
Elevation (M)*	51.967
Northing (SFT)	1,538,030.6411
Easting (SFT)	1,126,205.5133
Elevation (SFT)*	170.496

Convergence Angle	0	20	27.1294597
Scale Factor			1.000003280
Elevation Adjust. Factor			0.9999918447
Combined Adjust. Factor			0.9999951247

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	17	7.3607172	
Longitude	92	36	32.5136304	
Ellipsoid Height (M):	25.769			
Geoid Height (M):	-26.169			

Location Description

To reach the station from the junction of Hwy-167 and Hwy-7 northeast of ElDorado go north on Hwy-167 for 3.20 miles to the station on the right. 50.20 feet southeast of the center of Hwy-167, 15.10 feet northwest of a gravel drive and 1.65 feet northwest of a witness post. The station mark is a standard 2 1/2 inch cap stamped "700025 2005" set on top of an 5/8 inch by 4 foot long iron rod and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Southwest corner of porch	120	20.20	66.3
MK # 2	Water Meter	145	5.60	18.4
MK # 3				

AZ Mark Station	700025A
Geodetic Azimuth	047 44 12
Grid Azimuth	048 04 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700025A	9/20/2005	AHTD	Union	167	001914,070280,070281,070373

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	469,300.0500	
Easting (M)	343,833.1590	
Elevation (M)*	59.399	
Northing (SFT)	1,539,695.2474	
Easting (SFT)	1,128,059.2892	
Elevation (SFT)*	194.877	

Convergence Angle	0	20	14.9725555
Scale Factor	1.000002241		
Elevation Adjust. Factor	0.9999906785		
Combined Adjust. Factor	0.9999929195		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	17	23.9377092
Longitude	92	36	10.7928756
Ellipsoid Height (M):	33.197		
Geoid Height (M):	-26.169		

Location Description

To reach the station from the junction of Hwy-167 and Hwy-7 northeast of El Dorado, go north on Hwy-167 for 3.75 miles to the station on the right. 50.85 feet southeast of the center of Hwy-167, 57.40 feet southwest of a gravel drive and 1.65 feet northwest of a witness post. The station mark is a 2 1/2 inch cap stamped "700025A 2005" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Sign post "Kozy Kitchen"	112	11.90	39.0
MK # 2	SW corner of wooden building	59	30.10	98.8
MK # 3	Service pole	179	6.25	20.5

AZ Mark Station	700025
Geodetic Azimuth	227 44 24
Grid Azimuth	228 04 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700026	9/20/2005	AHTD	Union	167	001914,070280,070281,070373

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	471,727.5471	
Easting (M)	346,183.5200	
Elevation (M)*	51.615	
Northing (SFT)	1,547,659.4608	
Easting (SFT)	1,135,770.4319	
Elevation (SFT)*	169.341	

Convergence Angle	0	19	24.4282781
Scale Factor	0.999997368		
Elevation Adjust. Factor	0.9999919000		
Combined Adjust. Factor	0.9999892680		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	18	43.1700840
Longitude	92	34	40.4853564
Ellipsoid Height (M):	25.445		
Geoid Height (M):	-26.168		

Location Description

To reach the station from the junction of Hwy-167 and Hwy-335 northeast of El Dorado, go north on Hwy-167 for 0.45 miles to the station on the left. 48.4 feet northwest of the center of Hwy-167,61 feet northeast of a gravel drive and 12.50 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "700026 2005" on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Concrete Right of Way marker	295	9.30	30.5
MK # 2	Power pole	238	26.20	86.0
MK # 3				

AZ Mark Station	700026
Geodetic Azimuth	041 06 05
Grid Azimuth	041 25 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation was arrived at by three wire leveling from NGS BM X 198 by Crew S5102. Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700026A	9/20/2005	AHTD	Union	167	001914,070280,070281,070373

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	472,302.0671
Easting (M)	346,690.4690
Elevation (M)*	60.520
Northing (SFT)	1,549,544.3651
Easting (SFT)	1,137,433.6470
Elevation (SFT)*	198.555

Convergence Angle	0	19	13.5291607
Scale Factor			0.999996237
Elevation Adjust. Factor			0.9999905026
Combined Adjust. Factor			0.9999867396

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	19	1.9104996
Longitude	92	34	21.0118908
Ellipsoid Height (M):	34.333		
Geoid Height (M):	-26.168		

Location Description

To reach the station from the junction of Hwy-167 and Hwy-335 northeast of El Dorado, go north on Hwy-167 for 0.90 miles to the station on the left. 53.5 feet northwest of the center of Hwy-167, 29.5 feet northeast of a gravel drive and 1.65 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "700026A 2005" set on a 5/8 inch round and 4 foot long rebar driven to just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northeast end of 18 inch CMP	190	8.10	26.6
MK # 2	Gas meter	005	19.60	64.3
MK # 3	Water meter	353	21.40	70.2

AZ Mark Station	700026
Geodetic Azimuth	221 06 16
Grid Azimuth	221 25 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

Elevation was arrived at by three wire leveling from NGS BM X 198 by Crew S5102 on 10/03/05. Digital Levels ran from NGS marks X198, Y198, Z198, TT6T, & Y121 in June 2009 by crew S5105.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700027	9/21/2011	AHTD	UNION	7	070368

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	469,093.9439	
Easting (M)	337,401.0858	
Elevation (M)*	50.228	
Northing (SFT)	1,539,019.0476	
Easting (SFT)	1,106,956.7290	
Elevation (SFT)*	164.790	

Convergence Angle	0	22	34.0748331	
Scale Factor	1.000002741			
Elevation Adjust. Factor	0.9999921176			
Combined Adjust. Factor	0.9999948586			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	17	15.9477216
Longitude	92	40	19.3270764
Ellipsoid Height (M):	24.007		
Geoid Height (M):	-26.267		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 167, NORTH OF EL DORAD0, GO NORTH ON HIGHWAY 7 2.8 MILES TO MARK ON THE LEFT IN MEDIAN. NORTHEAST 36.7 FEET OF CENTERLINE SOUTH BOUND LANE, SOUTHWEST 27.2 FEET OF CNTERLINE NORTH BOUND LANE AND EAST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700027 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	700015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD,33-17-16, 92-40-19

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700028	9/21/2011	AHTD	UNION	7	070368

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	466,427.1816	
Easting (M)	334,171.3230	
Elevation (M)*	69.695	
Northing (SFT)	1,530,269.8450	
Easting (SFT)	1,096,360.4155	
Elevation (SFT)*	228.656	

Convergence Angle	0	23	43.5374458	
Scale Factor	1.000008293			
Elevation Adjust. Factor	0.9999890628			
Combined Adjust. Factor	0.9999973557			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	33	15	48.6840420	
Longitude	92	42	23.4360072	
Ellipsoid Height (M):	43.454			
Geoid Height (M):	-26.268			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 335 SOUTH, NORTHWEST OF EL DORAD0, GO SOUTH ON HIGHWAY 335 2.85 MILES TO MARK ON THE RIGHT. SOUTHWEST 127 FEET FROM EDGE OF CONCRETE DRIVEWAY AND WEST 19.3 FEET FROM CENTERLINE.OF HIGHWAY 335 THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700028 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	224	27.43	90.0
MK # 2				
MK # 3				

AZ Mark Station	700028A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD,33-15-49 92-42-24

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700028A	9/21/2011	AHTD	UNION	7	070368

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	466,910.7818	
Easting (M)	334,518.0298	
Elevation (M)*	65.685	
Northing (SFT)	1,531,856.4566	
Easting (SFT)	1,097,497.9028	
Elevation (SFT)*	215.500	

Convergence Angle	0	23	36.1119847
Scale Factor	1.000007276		
Elevation Adjust. Factor	0.9999896920		
Combined Adjust. Factor	0.9999969680		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	16	4.4581836
Longitude	92	42	10.1689272
Ellipsoid Height (M):	39.439		
Geoid Height (M):	-26.268		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND HIGHWAY 335 SOUTH, NORTHWEST OF EL DORADO, GO SOUTH ON HIGHWAY 335 2.55 MILES TO MARK ON THE LEFT, NORTHEAST 33.4 FEET OF A GRAVEL DRIVEWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700028A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 5 GUYS	38	30.72	100.8
MK # 2				
MK # 3				

AZ Mark Station	700028
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD,33-16-05 92-42-10

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700029	9/21/2011	AHTD	UNION	IOLLY R	070368

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	464,220.7891	
Easting (M)	332,333.2842	
Elevation (M)*	69.961	
Northing (SFT)	1,523,031.0389	
Easting (SFT)	1,090,330.1166	
Elevation (SFT)*	229.529	

Convergence Angle	0	24	22.9451052
Scale Factor	1.000013009		
Elevation Adjust. Factor	0.9999890210		
Combined Adjust. Factor	1.0000020299		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	33	14	36.6517104
Longitude	92	43	33.8457180
Ellipsoid Height (M):	43.724		
Geoid Height (M):	-26.270		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 335 NORTH AND HIGHWAY 82, WEST, OF EL DORADO, GO NORTH ON HIGHWAY 335 2.65 MILES TO CROSS ROAD AND 4 WAY STOP, TURN RIGHT ON MT. HOLLY ROAD AND GO 0.2 MILES TO MARK ON THE LEFT. NORTH 20 FEET FROM THE CENTERLINE OF MT. HOLLY ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700029 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	309	11.00	36.1
MK # 2	METER POLE	101	27.09	88.9
MK # 3				

AZ Mark Station	700029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD,33-14-37 92-43-34

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700029A	9/21/2011	AHTD	UNION	IOLLY R	070368

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	464,391.8602	
Easting (M)	331,935.8912	
Elevation (M)*	73.247	
Northing (SFT)	1,523,592.2947	
Easting (SFT)	1,089,026.3364	
Elevation (SFT)*	240.311	

Convergence Angle	0	24	31.5627827
Scale Factor	1.000012648		
Elevation Adjust. Factor	0.9999885053		
Combined Adjust. Factor	1.0000011531		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	33	14	42.1125576	
Longitude	92	43	49.2429324	
Ellipsoid Height (M):	47.001			
Geoid Height (M):	-26.271			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 335 NORTH AND HIGHWAY 82, WEST, OF EL DORADO, GO NORTH ON HIGHWAY 335 2.65 MILES TO CROSS ROAD AND 4 WAY STOP, TURN LEFT ON MT. HOLLY ROAD AND GO 0.1 MILES TO MARK ON THE LEFT, WEST 15.0 FEET OF A CONCRETE DRIVEWAY, SOUTH 24.00 FEET FROM THE CENTERLINE OF MT. HOLLY ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700029A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	125	19.63	64.4
MK # 2	COMBINATION POLE WITH GUY AND LIGH T	40	17.07	56.0
MK # 3				

AZ Mark Station	700029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD,33-14-42 92-43-49

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700030	9/22/2011	AHTD	UNION	82	070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	458,944.2528	
Easting (M)	340,472.8503	
Elevation (M)*	78.049	
Northing (SFT)	1,505,719.6027	
Easting (SFT)	1,117,034.6764	
Elevation (SFT)*	256.065	

Convergence Angle	0	21	26.2623015
Scale Factor	1.000024582		
Elevation Adjust. Factor	0.9999877518		
Combined Adjust. Factor	1.0000123335		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	11	47.1471072
Longitude	92	38	18.1663476
Ellipsoid Height (M):	51.784		
Geoid Height (M):	-26.260		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO EAST ON 82 0.20 MILES TO THE STATION MARK ON THE LEFT, 26.00 FEET NORTHEAST OF CENTERLINE OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700030 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	317	13.71	45.0
MK # 2	SOUTHWEST CORNER OF ONE STORY BRIC K BUILDING	55	20.24	66.4
MK # 3				

AZ Mark Station	700030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD 33-11-47, 92-38-18

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700030A	9/22/2011	AHTD	UNION	82B	070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	459,273.5619	
Easting (M)	340,032.1191	
Elevation (M)*	70.729	
Northing (SFT)	1,506,800.0110	
Easting (SFT)	1,115,588.7107	
Elevation (SFT)*	232.051	

Convergence Angle	0	21	35.8300726
Scale Factor	1.000023839		
Elevation Adjust. Factor	0.9999889004		
Combined Adjust. Factor	1.0000127391		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	11	57.7462560
Longitude	92	38	35.2610952
Ellipsoid Height (M):	44.465		
Geoid Height (M):	-26.260		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 0.10 MILES TO THE STATION MARK ON THE LEFT, 48.8 FEET NORTHWEST FROM CENTER OF CONCRETE DRIVEWAY AND 42.0 FEET SOUTHEAST FROM CENTER OF CONCRETE DRIVEWAY AND SOUTHWEST 24.00 FEET OF CENTERLINE OF HIGHWAY 82B. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700030A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH LIGHT AND GU Y	227	3.35	11.0
MK # 2				
MK # 3				

AZ Mark Station	700030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD 33-11-58, 92-38-35

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700031	9/22/2011	AHTD	UNION	82B	070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	460,221.7635	
Easting (M)	336,202.5942	
Elevation (M)*	79.969	
Northing (SFT)	1,509,910.9024	
Easting (SFT)	1,103,024.6778	
Elevation (SFT)*	262.366	

Convergence Angle	0	22	58.7158247	
Scale Factor	1.000021751			
Elevation Adjust. Factor	0.9999874503			
Combined Adjust. Factor	1.0000092011			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid09			
Latitude	33	12	27.7170084	
Longitude	92	41	3.3531648	
Ellipsoid Height (M):	53.718			
Geoid Height (M):	-26.267			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 2.7 MILES TO THE STATION MARK ON THE RIGHT, 24.0 FEET WEST FROM CENTER OF CONCRETE DRIVEWAY AND 31.7 FEET NORTH FROM CENTERLINE OF HIGHWAY 82B. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700031 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH LIGHT	283	8.83	29.0
MK # 2	CONCRETE CURB CORNER	343	5.70	18.7
MK # 3				

AZ Mark Station	700031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD 33-12-28, 92-41-03

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700031A	9/22/2011	AHTD	UNION	82B	070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	460,210.8626	
Easting (M)	335,686.0081	
Elevation (M)*	76.050	
Northing (SFT)	1,509,875.1384	
Easting (SFT)	1,101,329.8449	
Elevation (SFT)*	249.507	

Convergence Angle	0	23	9.8777618
Scale Factor	1.000021784		
Elevation Adjust. Factor	0.9999880654		
Combined Adjust. Factor	1.0000098492		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	12	27.2506572
Longitude	92	41	23.2962108
Ellipsoid Height (M):	49.799		
Geoid Height (M):	-26.268		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 3.0 MILES TO THE STATION MARK ON THE LEFT,14.2 FEET EAST FROM CENTERLINE OF CONCRETE DRIVEWAY 87.8 FEET WEST OF THE CENTER OF A CONCRETE DRIVE AND 40.2 FEET SOUTH FROM CENTERLINE OF HIGHWAY 82B AND NORTH 18.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700031A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	700031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD 33-12-27, 92-41-23

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700032	9/22/2011	AHTD	UNION	82	070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	460,397.3692	
Easting (M)	326,877.7611	
Elevation (M)*	65.034	
Northing (SFT)	1,510,487.0355	
Easting (SFT)	1,072,431.4545	
Elevation (SFT)*	213.365	

Convergence Angle	0	26	20.2550356	
Scale Factor	1.000021507			
Elevation Adjust. Factor	0.9999897942			
Combined Adjust. Factor	1.0000113009			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	33	12	31.2458112	
Longitude	92	47	3.4435068	
Ellipsoid Height (M):	38.748			
Geoid Height (M):	-26.281			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 8.5 MILES TO THE STATION MARK ON THE RIGHT, 49.0 FEET NORTH FROM CENTERLINE OF HIGHWAY 82 AND SOUTH 70.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700032 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	54	5.85	19.2
MK # 2	FENCE CORNER	323	27.73	91.0
MK # 3				

AZ Mark Station	700032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD 33-12-32, 92-47-29

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700032A	9/22/2011	AHTD	UNION	82	070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	460,421.0890	
Easting (M)	326,231.5621	
Elevation (M)*	64.455	
Northing (SFT)	1,510,564.8562	
Easting (SFT)	1,070,311.3833	
Elevation (SFT)*	211.465	

Convergence Angle	0	26	34.2235423
Scale Factor	1.000021465		
Elevation Adjust. Factor	0.9999898851		
Combined Adjust. Factor	1.0000113499		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	33	12	31.8542976	
Longitude	92	47	28.4010540	
Ellipsoid Height (M):	38.166			
Geoid Height (M):	-26.282			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7, HIGHWAY 167, HIGHWAY 63 AND HIGHWAY 82, EAST OF EL DORADO GO WEST ON 82B 8.95 MILES TO THE STATION MARK ON THE RIGHT, 27.9 FEET NORTH FROM EDGE OF PAVEMENT OF HIGHWAY 82. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700032A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AHTD RIGHT OF WAY MARKER	83	27.13	89.0
MK # 2	COMBINATION POLE	282	22.77	74.7
MK # 3	SOUTHWEST CORNER OF ONE STORY BRICK HOUSE	5	29.57	97.0

AZ Mark Station	700032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HAND HELD 33-12-32, 92-47-29

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700033	9/22/2011	AHTD	UNION	82	070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	461,272.3931	
Easting (M)	321,956.2846	
Elevation (M)*	73.109	
Northing (SFT)	1,513,357.8430	
Easting (SFT)	1,056,284.9104	
Elevation (SFT)*	239.857	

Convergence Angle	0	28	6.7638063
Scale Factor	1.000019637		
Elevation Adjust. Factor	0.9999885270		
Combined Adjust. Factor	1.0000081638		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	12	58.3818912
Longitude	92	50	13.7428512
Ellipsoid Height (M):	46.814		
Geoid Height (M):	-26.284		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 335 NORTH, WEST OF EL DORADO GO WEST ON 82 6.0 MILES TO THE STATION MARK ON THE RIGHT, 177 FEET EAST OF LYNN FITE ROAD, NORTH 6.3 FEET FROM EDGE OF PAVEMENT OF HIGHWAY 82 AND SOUTH 22.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700033 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	11	6.86	22.5
MK # 2	FIRE HYDRANT	303	31.70	104.0
MK # 3				

AZ Mark Station	700033A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

S5112 Tied this GPS Point by 3-Wire Digital Levels in January of 2013 from TBM 969 (Job #070367) that's based on Garver's 3-Wire Digital Levels from NGS 1st Order BM N 148 to NGS 2nd Order BM P 121 in 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700033A	9/22/2011	AHTD	UNION	82	070367

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	461,346.4024	
Easting (M)	321,435.1749	
Elevation (M)*	79.446	
Northing (SFT)	1,513,600.6552	
Easting (SFT)	1,054,575.2363	
Elevation (SFT)*	260.648	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid09			
Latitude	33	13	0.6452652	
Longitude	92	50	33.8886888	
Ellipsoid Height (M):	53.154			
Geoid Height (M):	-26.284			

Convergence Angle	0	28	18.0392440
Scale Factor	1.000019482		
Elevation Adjust. Factor	0.9999875325		
Combined Adjust. Factor	1.0000070143		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND HIGHWAY 335 NORTH, WEST OF EL DORADO GO WEST ON 82 6.3 MILES TO THE STATION MARK ON THE RIGHT, NORTH 7.7 FEET FROM EDGE OF PAVEMENT OF HIGHWAY 82 AND SOUTH 22.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "700033A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD RIGHT OF WAY MARKER	38	7.99	26.2
MK # 2				
MK # 3				

AZ Mark Station	700033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

S5112 Tied this GPS Point by 3-Wire Digital Levels in January of 2013 from TBM 969 (Job #070367) that's based on Garver's 3-Wire Digital Levels from NGS 1st Order BM N 148 to NGS 2nd Order BM P 121 in 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700034	8/30/2017	AHTD	UNION	335	070380

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	472,981.0115	0.0020
Easting (M)	340,362.4080	0.0020
Elevation (M)*	38.729	

Northing (SFT)	1,551,771.8686	
Easting (SFT)	1,116,672.3336	
Elevation (SFT)*	127.062	

Convergence Angle	0	21	30.5463612
Scale Factor			0.999994989
Elevation Adjust. Factor			0.9999939223
Combined Adjust. Factor			0.9999889113

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	19	22.7309484
Longitude	92	38	25.8206820
Ellipsoid Height (M):	12.463		
Geoid Height (M):	-26.265		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 335, EAST OF NORPHLET, GO SOUTH ON HIGHWAY 335 3.7 MILES TO THE MARK ON THE RIGHT, NORTH 14.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND ACROSS THE ROAD FROM A GATED DIRT ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "700034 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	4	8.38	27.5
MK # 2	CENTER OF GATE	171	19.20	63.0
MK # 3	POWER POLE	163	21.03	69.0

AZ Mark Station	700034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP, LTEC

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM R 198 BY S5112 IN SEPT. 2017 FOR JOB #070380. LEVELED ELEVATIONS WERE USED AS CONSTRAINTS IN FINAL STATIC NETWORK ADJUSTMENT. INCORPORATED NGS 1ST ORDER BM X 196 INTO THE STATIC OBSERVATIONS AS A CHECK ON BM R 198.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700034A	8/30/2017	AHTD	UNION	335	070380

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	472,539.8121	0.0020
Easting (M)	340,369.1952	0.0020
Elevation (M)*	37.648	

Northing (SFT)	1,550,324.3669	
Easting (SFT)	1,116,694.6013	
Elevation (SFT)*	123.517	

Convergence Angle	0	21	30.3397648
Scale Factor			0.999995846
Elevation Adjust. Factor			0.9999940919
Combined Adjust. Factor			0.9999899379

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	19	8.4117828
Longitude	92	38	25.4515560
Ellipsoid Height (M):	11.382		
Geoid Height (M):	-26.266		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 167 AND HIGHWAY 335, EAST OF NORPHLET, GO SOUTH ON HIGHWAY 335 3.7 MILES TO A GATED DIRT ROAD ON THE LEFT, TURN LEFT AND GO 1433 FEET TO THE MARK ON THE RIGHT. WEST 22.5 FEET OF THE CENTERLINE OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "700034A 2017" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCED GAS VALVE VENT	162	22.25	73.0
MK # 2	POWER POLE	145	24.38	80.0
MK # 3	POWER POLE W/GUY	343	19.51	64.0

AZ Mark Station	700034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARMO
Ref Mon # 2	ARCM
Ref Mon # 3	ARHP, LTEC

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM R 198 BY S5112 IN SEPT. 2017 FOR JOB #070380. LEVELED ELEVATIONS WERE USED AS CONSTRAINTS IN FINAL STATIC NETWORK ADJUSTMENT. INCORPORATED NGS 1ST ORDER BM X 196 INTO THE STATIC OBSERVATIONS AS A CHECK ON BM R 198.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700035	10/19/2017	AHTD	UNION	82	070459

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	449,425.4224	0.0030
Easting (M)	365,368.7545	0.0030
Elevation (M)*		

Northing (SFT)	1,474,489.9067	
Easting (SFT)	1,198,713.9887	
Elevation (SFT)*		

Convergence Angle	0	12	27.5726994
Scale Factor	1.000047079		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	6	42.1684344	
Longitude	92	22	15.6890100	
Ellipsoid Height (M):	15.535			0.0060
Geoid Height (M):	-26.195			0.0060

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 129S AND STATE HIGHWAY 275N, IN STRONG, GO WEST ON HIGHWAY 82 0.85 MILES TO THE MARK ON THE LEFT, SOUTH OF THE C/L OF THE HIGHWAY 22.5'. THE MARK IS A STANDARD 2" CAP STAMPED "2017 700035" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END CONC CULVERT	89	13.11	43.0
MK # 2	TELEPHONE BOX AND POWER POLE	45	23.16	76.0
MK # 3				

AZ Mark Station	700035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM

Comments

GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
700035A	10/19/2017	AHTD	UNION	82	070459

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	449,439.5629	0.0030
Easting (M)	365,877.0543	0.0030
Elevation (M)*		
Northing (SFT)	1,474,536.2993	
Easting (SFT)	1,200,381.6356	
Elevation (SFT)*		

Convergence Angle	0	12	16.6013927	
Scale Factor	1.000047039			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	6	42.6867660	
Longitude	92	21	56.0865636	
Ellipsoid Height (M):	9.772	0.0060		
Geoid Height (M):	-26.193	0.0060		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 82 AND STATE HIGHWAY 129S AND STATE HIGHWAY 275N, IN STRONG, GO WEST ON HIGHWAY 82 0.55 MILES TO THE MARK ON THE RIGHT, NORTH OF THE C/L OF THE HIGHWAY 35' AND WEST OF THE C/L OF NORTH HICKORY STREET 116'. THE MARK IS A STANDARD 2" CAP STAMPED "2017 700035A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	264	11.88	39.0
MK # 2				
MK # 3				

AZ Mark Station	700035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM

Comments

GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710001 RESET	8/30/2002	AHTD	VAN BUREN	65	080229, R80065

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	117,376.2781	
Easting (M)	364,600.0240	
Elevation (M)*		
Northing (SFT)	385,092.0057	
Easting (SFT)	1,196,191.9121	
Elevation (SFT)*		

Convergence Angle	0	13	36.2901756
Scale Factor			0.999941610
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	23	26.5409484
Longitude	92	23	22.8035724
Ellipsoid Height (M):	173.178		
Geoid Height (M):	-27.821		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 124 EAST LOCATED ABOUT 1.50 MILES NORTH OF DAMASCUS, GO NORTH ON U.S. HIGHWAY 65 FOR 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 24.00 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65, 11.25 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVE, AND 1.10 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "710001 RESET 2002" SET ON TOP OF AN IRON ROD 0.57 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	344	9.20	30.2
MK # 2	CROSS TIE GATE POST	312	2.34	7.7
MK # 3	CROSS TIE BRACE POST	254	1.28	4.2

AZ Mark Station	710001A
Geodetic Azimuth	349 54 27
Grid Azimuth	350 08 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	PJTC CAMPUS
Ref Mon # 3	AHTD LITTLE ROCK

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710002	10/29/1996	AHTD	VAN BUREN	65	RX0021

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	151,295.2379	
Easting (M)	353,385.0970	
Elevation (M)*	389.112	
Northing (SFT)	496,374.4597	
Easting (SFT)	1,159,397.6057	
Elevation (SFT)*	1,276.612	

Convergence Angle	0	17	58.9830971
Scale Factor	0.999937830		
Elevation Adjust. Factor	0.9999389394		
Combined Adjust. Factor	0.9998767732		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	41	45.4911720
Longitude	92	30	54.2442240
Ellipsoid Height (M):	360.535		
Geoid Height (M):	-28.577		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 110 IN BOTKINBURG GO SOUTHERLY ON HWY-65 FOR 0.08 KM. (0.05 MI.) TO THE STATION ON THE LEFT. 52.30 METERS SOUTHEAST OF THE CENTER OF HWY-110, 20.40 METERS NORTHWEST OF THE CENTER OF A PAVED DRIVEWAY, 9.62 METERS NORTHEAST OF THE CENTER OF HWY-65 AND 1.16 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710002 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST SIGN POST "ANTIQUE WAREH OUSE"	130	32.57	106.9
MK # 2	SOUTHEAST CORNER OF METAL BUILDING	78	13.78	45.2
MK # 3	SOUTHEAST END OF METAL PIPE UNDER H WY 110	318	34.20	112.2

AZ Mark Station	710002A
Geodetic Azimuth	142 29 33.17617
Grid Azimuth	142 47 32.17169

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING TBM-4 ON JOB NO. RX0021 ELEVATION = 387.299 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710002A	10/29/1996	AHTD	VAN BUREN	65	RX0021

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	150,772.5380	
Easting (M)	353,781.9590	
Elevation (M)*	404.794	
Northing (SFT)	494,659.5684	
Easting (SFT)	1,160,699.6438	
Elevation (SFT)*	1,328.062	

Convergence Angle	0	17	49.7344531
Scale Factor	0.999937674		
Elevation Adjust. Factor	0.9999364787		
Combined Adjust. Factor	0.9998741566		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	41	28.5978588
Longitude	92	30	38.3503284
Ellipsoid Height (M):	376.221		
Geoid Height (M):	-28.573		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 110 IN BOTKINBURG GO SOUTHERLY ON HWY-65 FOR 0.80 KM. (0.50 MI.) TO THE STATION ON THE LEFT. 9.35 METERS NORTHEAST OF THE CENTER OF HWY-65 AND 11.82 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710002A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	129	35.50	116.5
MK # 2	NORTH CORNER OF A HEADWALL	179	30.21	99.1
MK # 3	NONE			

AZ Mark Station	710002
Geodetic Azimuth	322 29 42.44949
Grid Azimuth	322 47 32.17169

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING USING TBM-3 ON JOB RX0021 ELEVATION = 391.135 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710003	10/29/1996	AHTD	VAN BUREN	65	21,08_2,080468,Mobile LiDAI

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	157,360.0705	
Easting (M)	352,766.0447	
Elevation (M)*	438.165	
Northing (SFT)	516,272.1646	
Easting (SFT)	1,157,366.5983	
Elevation (SFT)*	1,437.545	

Convergence Angle	0	18	14.0564664
Scale Factor			0.999940136
Elevation Adjust. Factor			0.9999312424
Combined Adjust. Factor			0.9998713825

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	45	2.1862548
Longitude	92	31	20.1493596
Ellipsoid Height:			409.006
Grid Northing (Meters)			157,360.4579
Grid Easting (Meters)			352,766.0120

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	45	2.1736908
Longitude	92	31	20.1479736
Ellipsoid Height (M):	410.383		
Geoid Height (M):	-27.781		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO SOUTHERLY ON HWY-65 FOR 0.72 KM. (0.45 MI.) TO THE STATION ON THE LEFT. 15.10 METERS EAST-NORTHEAST OF THE CENTER OF HWY-65 AND 3.38 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710003 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	28	5.58	18.3
MK # 2	TELEPHONE JUNCTION BOX	357	20.40	66.9
MK # 3	NONE			

AZ Mark Station	710003A
Geodetic Azimuth	346 37 52.09189
Grid Azimuth	346 56 06.14353

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710003A	10/29/1996	AHTD	VAN BUREN	65	21,08_2,080468,Mobile LiDAI

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	157,861.0865
Easting (M)	352,649.7764
Elevation (M)*	459.474
Northing (SFT)	517,915.9146
Easting (SFT)	1,156,985.1414
Elevation (SFT)*	1,507.456

Convergence Angle	0	18	16.8111895
Scale Factor			0.999940367
Elevation Adjust. Factor			0.9999278988
Combined Adjust. Factor			0.9998682701

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	45	18.4226436
Longitude	92	31	24.8832840
Ellipsoid Height:			430.246
Grid Northing (Meters)			157,861.4690
Grid Easting (Meters)			352,649.7460

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	45	18.4102380
Longitude	92	31	24.8819952
Ellipsoid Height (M):			431.695
Geoid Height (M):			-27.781

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO SOUTHERLY ON HWY-65 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT. 31.30 METERS SOUTH-SOUTHEAST OF THE CENTER OF A GRAVEL DRIVEWAY, 14.94 METERS EAST-NORTHEAST OF THE CENTER OF HWY-65 AND 0.50 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710003A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST END OF CONCRETE CULVERT	329	28.07	92.1
MK # 2	NORTHWEST END OF METAL DRAIN PIPE	168	30.48	100.0
MK # 3	WOODEN FENCE POST	344	1.45	4.8

AZ Mark Station	710003
Geodetic Azimuth	166 37 49.32590
Grid Azimuth	166 56 06.14353

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710004	10/29/1996	AHTD	VAN BUREN	65	RX0021

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	160,502.1240
Easting (M)	352,159.3580
Elevation (M)*	438.247
Northing (SFT)	526,580.7185
Easting (SFT)	1,155,376.1604
Elevation (SFT)*	1,437.815

Convergence Angle	0	18	28.4996941
Scale Factor			0.999941686
Elevation Adjust. Factor			0.9999312295
Combined Adjust. Factor			0.9998729195

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	46	44.0192532	
Longitude	92	31	44.9688180	
Ellipsoid Height (M):	409.656			
Geoid Height (M):	-28.591			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO NORTHERLY ON HWY-65 FOR 2.74 KM. (1.70 MI.) TO THE STATION ON THE RIGHT JUST BEFORE DROPPING OFF OF A STEEP HILL. 15.10 METERS NORTH-NORTHEAST OF THE CENTER OF HWY-65, 11.0 METERS WEST-NORTHWEST OF THE CENTER OF A PAVED DRIVEWAY TO THE "DENNARD COUNTRY STORE" AND 0.50 METERS SOUTH-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710004 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF METAL DRAIN PIPE	165	4.30	14.1
MK # 2	SIGN ON METAL POLE	316	9.15	30.0
MK # 3	POWER POLE	332	15.50	50.9

AZ Mark Station	710004A
Geodetic Azimuth	144 35 46.84604
Grid Azimuth	144 54 15.35717

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710004A	10/29/1996	AHTD	VAN BUREN	65	RX0021

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	160,206.9220	
Easting (M)	352,366.7970	
Elevation (M)*	437.660	
Northing (SFT)	525,612.2099	
Easting (SFT)	1,156,056.7332	
Elevation (SFT)*	1,435.890	

Convergence Angle	0	18	23.6566869
Scale Factor	0.999941531		
Elevation Adjust. Factor	0.9999313216		
Combined Adjust. Factor	0.9998728566		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	34.4769132
Longitude	92	31	36.6460572
Ellipsoid Height (M):	409.071		
Geoid Height (M):	-28.589		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 254 IN DENNARD GO NORTHERLY ON HWY-65 FOR 2.41 KM. (1.50 MI.) TO THE STATION ON THE RIGHT. 14.35 METERS NORTHEAST OF THE CENTER OF HWY-65, 11.90 METERS NORTH-NORTHWEST OF THE CENTER OF A FIELD ENTRANCE AND 0.77 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710004A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF METAL DRAIN PI PE	183	8.69	28.5
MK # 2	SOUTHEAST END OF METAL DRAIN PIPE U NDER DW	321	36.55	119.9
MK # 3	WOODEN FENCE CORNER POST	143	8.57	28.1

AZ Mark Station	710004
Geodetic Azimuth	324 35 51.71185
Grid Azimuth	324 54 15.35717

Area Reference Monuments (used for Processing)

Ref Mon # 1	VERONA
Ref Mon # 2	EVANS AZ
Ref Mon # 3	640001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710005	10/23/2000	AHTD	VAN BUREN	330	080143,Mobile LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	132,598.7650
Easting (M)	360,042.0626
Elevation (M)*	
Northing (SFT)	435,034.4482
Easting (SFT)	1,181,238.0004
Elevation (SFT)*	

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	Assumed		
Geoid Datum:	Geoid 09		
Latitude	35	31	39.8725500
Longitude	92	26	26.1199644
Ellipsoid Height (M):	139.862		
Geoid Height (M):	-27.854		

Convergence Angle	0	15	22.9618243
Scale Factor	0.999936419		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, STATE HIGHWAY 9 AND STATE HIGHWAY 330, LOCATED IN CHOCTAW, GO EAST ON STATE HIGHWAY 330 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS NORTH OF THE CENTER OF STATE HIHGWAY 330, 10.45 METERS WEST OF THE CENTER OF A PAVED ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710005 2000" SET ON TOP OF AN IRON ROD 0.80 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 413.363 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	50	2.75	9.0
MK # 2	WEST END OF A CMP	122	8.30	27.2
MK # 3	NONE			

AZ Mark Station	710005A
Geodetic Azimuth	255 47 14.88448
Grid Azimuth	256 02 37.85271

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	HEBEPORT
Ref Mon # 3	PJTC CAMPUS

Comments

Mark was found Disturbed in December 2009 by crew S5105.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710005A	10/23/2000	AHTD	VAN BUREN	9	)143,Mobile LiDAR-CLS,080

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	132,499.0798	
Easting (M)	359,640.9394	
Elevation (M)*	169.958	
Northing (SFT)	434,707.3976	
Easting (SFT)	1,179,921.9820	
Elevation (SFT)*	557.604	

Convergence Angle	0	15	32.2165705	
Scale Factor	0.999936435			
Elevation Adjust. Factor	0.9999733287			
Combined Adjust. Factor	0.9999097654			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	35	31	36.5793600	
Longitude	92	26	42.0243468	
Ellipsoid Height (M):	141.955			
Geoid Height (M):	-27.860			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, STATE HIGHWAY 9 AND STATE HIGHWAY 330, LOCATED IN CHOCTAW, GO WEST ON STATE HIGHWAY 9 FOR 0.33 KM (0.21 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.50 METERS NORTH OF THE CENTER OF STATE HIGHWAY 9 AND 0.36 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "710005A 2000" SET ON TOP OF AN IRON ROD 1.00 METER LONG AND DRIVE FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 413.363 METER.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	710005
Geodetic Azimuth	75 47 05.64259
Grid Azimuth	76 02 37.85271

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRI COUNTY
Ref Mon # 2	HEBEPORT
Ref Mon # 3	PJTC CAMPUS

Comments

ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710006	8/30/2002	AHTD	VAN BUREN	92	80253, 080363,080423, FSX0(

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	123,489.3008	
Easting (M)	363,303.4629	
Elevation (M)*	216.696	
Northing (SFT)	405,147.8144	
Easting (SFT)	1,191,938.1112	
Elevation (SFT)*	710.942	

Convergence Angle	0	14	6.7660005
Scale Factor	0.999938841		
Elevation Adjust. Factor	0.9999659946		
Combined Adjust. Factor	0.9999048376		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	26	44.7342648
Longitude	92	24	15.1766100
Ellipsoid Height (M):	188.827		
Geoid Height (M):	-27.812		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 92 IN BEE BRANCH GO WEST ON STATE HIGHWAY 92 FOR 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 13.20 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 92 AND 0.87 METERS SOUTHEAST OF A WITNESS POST SET IN A BARB WIRE FENCE LINE. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "710006 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PIPE FENCE POST	265	1.35	4.4
MK # 2				
MK # 3				

AZ Mark Station	710006A
Geodetic Azimuth	212 33 23
Grid Azimuth	212 47 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	PJTC CAMPUS
Ref Mon # 2	HEBEPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

3 Wire Levels were ran by crew S5105 in Dec. 09 from 2nd order NGS mark H 210.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710006A	8/30/2002	AHTD	VAN BUREN	92	080253

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	123,076.8401
Easting (M)	363,037.7080
Elevation (M)*	
Northing (SFT)	403,794.5996
Easting (SFT)	1,191,066.2137
Elevation (SFT)*	

Convergence Angle	0	14	12.8588251
Scale Factor			0.999939000
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	26	31.3147464
Longitude	92	24	25.6471956
Ellipsoid Height (M):	189.733		
Geoid Height (M):	-27.818		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 92 IN BEE BRANCH GO WEST ON STATE HIGHWAY 92 FOR 0.95 MILES TO THE STATION ON THE LEFT. THE STATION IS 9.35 METERS SOUTHEAST OF THE CENTER OF STATE HIGHWAY 92 AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "710006A 2002" SET ON TOP OF AN IRON ROD 1.0 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	197	8.30	27.2
MK # 2				
MK # 3				

AZ Mark Station	710006
Geodetic Azimuth	32 33 17
Grid Azimuth	32 47 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	PJTC CAMPUS
Ref Mon # 2	HEBEPORT
Ref Mon # 3	AHTD LITTLE ROCK

Comments

Mark was found Disturbed in December 2009 by crew S5105.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710007	10/12/2004	AHTD	VAN BUREN	65	0283,Mobile LiDAR-CLS,0804

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	135,612.8611	
Easting (M)	359,229.8100	
Elevation (M)*	231.809	
Northing (SFT)	444,923.1951	
Easting (SFT)	1,178,573.1350	
Elevation (SFT)*	760.527	

Convergence Angle	0	15	42.0412150
Scale Factor	0.999936066		
Elevation Adjust. Factor	0.9999636229		
Combined Adjust. Factor	0.9998996913		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	33	17.5566960
Longitude	92	26	58.9081056
Ellipsoid Height (M):	203.876		
Geoid Height (M):	-27.855		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 336 SOUTH OF CLINTON, GO SOUTH ON HIGHWAY 65 FOR 0.40 MILES TO THE STATION ON THE RIGHT. 17.9 METERS WEST OF THE CENTER OF HIGHWAY 65, 26.95 METERS NORTH OF A DRIVEWAY AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 710007 2004" SET ON TOP OF AN IRON ROD 0.90 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF A HEADWALL	22	11.20	36.7
MK # 2	CONCRETE RIGHT OF WAY MARKER	194	15.40	50.5
MK # 3				

AZ Mark Station	710007A
Geodetic Azimuth	001 13 43
Grid Azimuth	001 29 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	BUTLER
Ref Mon # 3	LROC C.O.R.S.

Comments

OLD ELEV. (231.8270m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710007A	10/12/2004	AHTD	VAN BUREN	65	0283,Mobile LiDAR-CLS,0804

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	136,077.9990	
Easting (M)	359,241.9110	
Elevation (M)*	239.339	
Northing (SFT)	446,449.2351	
Easting (SFT)	1,178,612.8363	
Elevation (SFT)*	785.231	

Convergence Angle	0	15	41.8106845
Scale Factor			0.999936031
Elevation Adjust. Factor			0.9999624413
Combined Adjust. Factor			0.9998984748

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	35	33	32.6515392	
Longitude	92	26	58.5119364	
Ellipsoid Height (M):	211.385			
Geoid Height (M):	-27.853			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 336 SOUTH OF CLINTON, GO SOUTH ON HIGHWAY 65 FOR 0.10 MILES TO THE STATION ON THE LEFT. 19.3 METERS NORTH OF A PAVED DRIVE, 19.6 METERS EAST OF THE CENTER OF HIGHWAY 65, 15.0 METERS SOUTH OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 710007A 2004 " SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SW CORNER OF WOODEN BUILDING	21	23.45	76.9
MK # 2	TELEPHONE RISER BOX	132	1.20	3.9
MK # 3	WATER METER	11	11.70	38.4

AZ Mark Station	710007
Geodetic Azimuth	181 13 43
Grid Azimuth	181 29 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	BUTLER
Ref Mon # 3	LROC C.O.R.S.

Comments

3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710008	10/12/2004	AHTD	VAN BUREN	65	3,08_2,080468,Mobile LiDAR

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	139,979.2270	
Easting (M)	358,720.3710	
Elevation (M)*	155.147	
Northing (SFT)	459,248.5139	
Easting (SFT)	1,176,901.7505	
Elevation (SFT)*	509.011	

Convergence Angle	0	15	54.2789713
Scale Factor	0.999935950		
Elevation Adjust. Factor	0.9999756530		
Combined Adjust. Factor	0.9999116046		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	35	39.1625232
Longitude	92	27	19.9388232
Ellipsoid Height (M):	127.270		
Geoid Height (M):	-27.842		

Location Description

T REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 65B ON THE SOUTH SIDE OF CLINTON, GO NORTH ON HIGHWAY 65 FOR 0.30 MILES TO THE STATION ON THE LEFT. 11.3 METERS SOUTH OF THE CENTER OF HIGHWAY 65 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 710008 2004 " SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	710008A
Geodetic Azimuth	316 34 53
Grid Azimuth	316 50 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	BUTLER
Ref Mon # 3	LROC C.O.R.S.

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. OF 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING. **PREVIOUS ELEV. (155.1478m) BY 3-wire levels ran from NGS N48 in Job# 080390 by crew s5104 in Oct 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710008A	10/12/2004	AHTD	VAN BUREN	65	)283,080468,Mobile LiDAR-C

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	140,316.1681	
Easting (M)	358,404.4750	
Elevation (M)*	155.667	
Northing (SFT)	460,353.9615	
Easting (SFT)	1,175,865.3484	
Elevation (SFT)*	510.718	

Convergence Angle	0	16	1.6178824
Scale Factor			0.999935961
Elevation Adjust. Factor			0.9999755713
Combined Adjust. Factor			0.9999115339

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	35	50.0480916	
Longitude	92	27	32.5508220	
Ellipsoid Height (M):	127.828			
Geoid Height (M):	-27.843			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 65 AND 65B ON THE SOUTH SIDE OF CLINTON, GO NORTH ON HIGHWAY 65 FOR 0.70 MILES TO THE STATION ON THE LEFT. 11.80 METERS SOUTHWEST OF THE CENTER OF HIGHWAY 65 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED " 710008A 2004 " SET ON TOP OF AN IRON ROD 0.65 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER BOX	251	3.45	11.3
MK # 2	NORTHEAST END OF BILLBOARD	162	23.80	78.1
MK # 3				

AZ Mark Station	710008
Geodetic Azimuth	136 34 46
Grid Azimuth	136 50 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	BUTLER
Ref Mon # 3	LROC C.O.R.S.

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. OF 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING. **PREVIOUS ELEV. (155.671m) BY 3-wire levels ran from NGS N48 in Job# 080390 by crew s5104 in Oct 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710010	6/3/2010	AHTD	VAN BUREN	65	080391

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	119,103.2231	
Easting (M)	364,431.5700	
Elevation (M)*	205.759	
Northing (SFT)	390,757.8245	
Easting (SFT)	1,195,639.2426	
Elevation (SFT)*	675.062	

Convergence Angle	0	13	40.3329007
Scale Factor	0.999940734		
Elevation Adjust. Factor	0.9999677107		
Combined Adjust. Factor	0.9999084466		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	24	22.5574524
Longitude	92	23	29.7510396
Ellipsoid Height (M):	177.932		
Geoid Height (M):	-27.815		

Location Description

TO REACH THE STATION FROM JCT. US HWY 124 & 65, GO NORTH ON US HWY 65 1.2 MILES TO THE STATION ON THE LEFT. LOCATED IN THE S/E CORNER OF A BABTIST CHURCH PARKING LOT. 175 FEET S/E OF S/E CORNER OF THE MAIN STEP OF THE CHURCH. 1 1/2 FEET EAST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710010 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST CORNER OF CHURCH SIGN	36	28.35	93.0
MK # 2	EAST END OF FENCE ALONG DRIVE	155	27.43	90.0
MK # 3	CORNER OF E/W & N/S FENCE	222	24.08	79.0

AZ Mark Station	710010A
Geodetic Azimuth	282 42 01
Grid Azimuth	282 55 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

3-Wire Digital Level ran from TBM-906 to PN 1 from job # 080363 by S5105 in Oct. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710010A	6/3/2010	AHTD	VAN BUREN	*	080391

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	119,220.3601	
Easting (M)	363,921.2780	
Elevation (M)*	206.007	
Northing (SFT)	391,142.1314	
Easting (SFT)	1,193,965.0596	
Elevation (SFT)*	675.875	

Convergence Angle	0	13	52.1127968
Scale Factor	0.999940678		
Elevation Adjust. Factor	0.9999676718		
Combined Adjust. Factor	0.9999083517		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	24	26.2921356
Longitude	92	23	49.9949196
Ellipsoid Height (M):	178.174		
Geoid Height (M):	-27.824		

Location Description

TO REACH THE STATION FROM JCT. US HWY 124 & 65, GO NORTH ON US HWY 65 1.3 MILES TO THE INTERSECTION OF HIGHWAY 65 AND SULPHUR ROAD, GO WEST ON SULPHUR ROAD 0.3 MILES TO THE STATION ON THE LEFT. 20 FEET NORTH OF THE CENTERLINE OF THE ROAD, 22 FEET EAST OF A DRIVE AND 2 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710010A 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	66	34.44	113.0
MK # 2	EAST END OF 8" METAL CULVERT	323	11.03	36.2
MK # 3				

AZ Mark Station	710010
Geodetic Azimuth	102 41 49
Grid Azimuth	102 55 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARHR

Comments

3-Wire Digital Level ran from TBM-906 to PN 1 from job # 080363 by S5105 in Oct. 2010.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710011	6/3/2010	AHTD	VAN BIREN	65	0391,Mobie LiDAR-CLS,0804

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	127,880.2151	
Easting (M)	361,199.4480	
Elevation (M)*	303.589	
Northing (SFT)	419,553.6724	
Easting (SFT)	1,185,035.1890	
Elevation (SFT)*	996.024	

Convergence Angle	0	14	55.7551745
Scale Factor	0.999937420		
Elevation Adjust. Factor	0.9999523593		
Combined Adjust. Factor	0.9998897823		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	29	6.9267624
Longitude	92	25	39.3650400
Ellipsoid Height (M):	275.780		
Geoid Height (M):	-27.830		

Location Description

TO REACH THE STATION FROM JCT. US HWY 65 & US HWY 92, GO NORTH ON US HWY 65 3.0 MILES TO THE STATION ON THE LEFT. 91 FEET NORTH OF A GRAVEL DRIVEWAY. 76 FEET WEST OF C/L OF US HWY 65. 2 FEET EAST OF A WITNESS POST.THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710011 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	710011A
Geodetic Azimuth	167 16 13
Grid Azimuth	167 31 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

OLD ELEV. (303.6090m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710011A	6/3/2010	AHTD	VAN BUREN	65	,Mobie LiDAR-CLS,080363,(

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	127,455.8081	
Easting (M)	361,293.3880	
Elevation (M)*	314.480	
Northing (SFT)	418,161.2637	
Easting (SFT)	1,185,343.3905	
Elevation (SFT)*	1,031.758	

Convergence Angle	0	14	53.5440449
Scale Factor			0.999937537
Elevation Adjust. Factor			0.9999506502
Combined Adjust. Factor			0.9998881903

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	28	53.1684300
Longitude	92	25	35.5651896
Ellipsoid Height (M):	286.663		
Geoid Height (M):	-27.827		

Location Description

TO REACH THE STATION FROM JCT. US HWY 65 & US HWY 92, GO NORTH ON US HWY 65 2.7 MILES TO THE STATION ON THE LEFT. 93 FEET WEST OF C/L US HWY 65. 72 FEET SOUTH OF GRAVEL DRIVE. 1.5 FEET EAST OF A WITNESS POST. THE STATION MARK IS A 2 1/2 INCH CAP STAMPED "710011A 2010" SET ON TOP OF A 5/8 INCH BY 4 FEET LONG REBAR AND IS 0.20 FOOT BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	145	17.07	56.0
MK # 2	N/S & E/W FENCE CORNER	219	26.85	88.1
MK # 3	SOUTH END OF AN 18" CULVERT	343	18.59	61.0

AZ Mark Station	710011
Geodetic Azimuth	347 16 15
Grid Azimuth	347 31 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARHR

Comments

OLD ELEV. (314.4900m) BY 3-wire levels ran from NGS N48 in Job# 080283 by S5101/S5111 in June 2005. UPDATED ELEV. FROM DIGITAL LEVELS BY S5105 IN MARCH OF 2012 UNDER JOB #080423 FROM TBM #909 OF JOB #080363 TO GPS MONUMENT 710007A. TBM #909 WAS ESTABLISHED BY DIGITAL LEVELS FROM NGS H 210 & 710007A WAS ESTABLISHED BY 3WR LEVELS FROM NGS N 48.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710012	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	143,257.1870	
Easting (M)	358,577.2315	
Elevation (M)*	274.896	
Northing (SFT)	470,002.9543	
Easting (SFT)	1,176,432.1337	
Elevation (SFT)*	901.888	

Convergence Angle	0	15	57.9398684
Scale Factor	0.999936172		
Elevation Adjust. Factor	0.9999568617		
Combined Adjust. Factor	0.9998930365		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	37	25.5050832
Longitude	92	27	26.2301148
Ellipsoid Height (M):	247.095		
Geoid Height (M):	-27.817		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 1.4 MILES TO MARK ON THE LEFT, WEST 8.3 FEET FROM THE EDGE OF HIGHWAY 65 PAVEMENT AND EAST 19.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710012 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	349	22.19	72.8
MK # 2	COMBINATION POLE	346	18.68	61.3
MK # 3				

AZ Mark Station	710012A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710012A	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	143,842.8039	
Easting (M)	358,579.4590	
Elevation (M)*	304.869	
Northing (SFT)	471,924.2658	
Easting (SFT)	1,176,439.4417	
Elevation (SFT)*	1,000.224	

Convergence Angle	0	15	57.9512517
Scale Factor	0.999936240		
Elevation Adjust. Factor	0.9999521584		
Combined Adjust. Factor	0.9998884015		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	37	44.5076076
Longitude	92	27	26.2496772
Ellipsoid Height (M):	277.081		
Geoid Height (M):	-27.811		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 1.75 MILES TO MARK ON THE RIGHT, NORTH 83.0 FEET OF THE CENTER OF ASPHALT DRIVE , SOUTH 84.0 FEET OF THE CENTER OF ASPHALT DRIVE , EAST 6.0 FEET OF THE EDGE OF HIGHWAY 65 PAVEMENT. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710012A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	50	9.14	30.0
MK # 2	GAS METER	15	19.57	64.2
MK # 3	LIGHT POLE	136	17.49	57.4

AZ Mark Station	7100012
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710013	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	146,425.1213	
Easting (M)	358,400.2680	
Elevation (M)*	393.832	
Northing (SFT)	480,396.4188	
Easting (SFT)	1,175,851.5459	
Elevation (SFT)*	1,292.097	

Convergence Angle	0	16	2.3740682
Scale Factor	0.999936638		
Elevation Adjust. Factor	0.9999381987		
Combined Adjust. Factor	0.9998748407		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	39	8.2717632
Longitude	92	27	33.8503356
Ellipsoid Height (M):	366.064		
Geoid Height (M):	-27.787		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 3.45 MILES TO MARK ON THE RIGHT, SOUTH 132 FEET OF THE CENTER OF ASPHALT DRIVE, EAST 43.5 FEET FROM THE EDGE OF HIGHWAY 65 PAVEMENT AND WEST 18.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710013 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 2 GUY WIRES	14	18.65	61.2
MK # 2				
MK # 3				

AZ Mark Station	710013A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710013A	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	146,823.7388	
Easting (M)	358,063.6043	
Elevation (M)*	397.822	
Northing (SFT)	481,704.2164	
Easting (SFT)	1,174,747.0084	
Elevation (SFT)*	1,305.187	

Convergence Angle	0	16	10.2057562
Scale Factor	0.999936714		
Elevation Adjust. Factor	0.9999375727		
Combined Adjust. Factor	0.9998742906		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	39	21.1549212
Longitude	92	27	47.3091768
Ellipsoid Height (M):	370.054		
Geoid Height (M):	-27.786		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 3.75 MILES TO MARK ON THE RIGHT, NORTHEAST 10.0 FEET FROM THE EDGE OF HIGHWAY 65 PAVEMENT AND SOUTHWEST 18.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710013A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	710013
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710014	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	148,760.0591	
Easting (M)	356,018.6211	
Elevation (M)*	429.537	
Northing (SFT)	488,056.9606	
Easting (SFT)	1,168,037.7594	
Elevation (SFT)*	1,409.240	

Convergence Angle	0	16	57.7370766
Scale Factor	0.999937137		
Elevation Adjust. Factor	0.9999325962		
Combined Adjust. Factor	0.9998697374		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	40	23.6646876
Longitude	92	29	8.9922696
Ellipsoid Height (M):	401.754		
Geoid Height (M):	-27.781		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 5.5 MILES TO MARK ON THE RIGHT, SOUTHEAST 89.0 FEET OF THE CENTER OF ASPHALT DRIVEWAY, NORTHEAST 41.6 FEET OF THE CENTERLINE OF HIGHWAY 65 AND SOUTHWEST 9.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710014 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH GUY	340	12.80	42.0
MK # 2				
MK # 3				

AZ Mark Station	710014A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710014A	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	149,184.0516	
Easting (M)	355,703.7772	
Elevation (M)*	423.808	
Northing (SFT)	489,448.0093	
Easting (SFT)	1,167,004.8090	
Elevation (SFT)*	1,390.442	

Convergence Angle	0	17	5.0712618
Scale Factor	0.999937242		
Elevation Adjust. Factor	0.9999334952		
Combined Adjust. Factor	0.9998707414		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	40	37.3717272
Longitude	92	29	21.5961468
Ellipsoid Height (M):	396.025		
Geoid Height (M):	-27.780		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 5.9 MILES TO MARK ON THE RIGHT, NORTHWEST 56.2 FEET OF THE CENTER OF ASPHALT DRIVEWAY, NORTHEAST 30.7 FEET OF THE CENTERLINE OF HIGHWAY 65. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710014A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	63	27.13	89.0
MK # 2	NORTHWEST CORNER OF WOOD STORAGE BUILDING	73	25.09	82.3
MK # 3				

AZ Mark Station	710014
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710015	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	150,858.3432	
Easting (M)	353,724.7701	
Elevation (M)*	399.949	
Northing (SFT)	494,941.0810	
Easting (SFT)	1,160,512.0166	
Elevation (SFT)*	1,312.167	

Convergence Angle	0	17	51.0684012
Scale Factor	0.999937699		
Elevation Adjust. Factor	0.9999372388		
Combined Adjust. Factor	0.9998749417		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	41	31.3724076
Longitude	92	30	40.6427328
Ellipsoid Height (M):	372.177		
Geoid Height (M):	-27.788		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 7.7 MILES TO MARK ON THE RIGHT, NORTHEAST 25.0 FEET OF THE CENTERLINE OF HIGHWAY 65 AND SOUTHWEST 26.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710015 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF HEADWALL	92	3.35	11.0
MK # 2				
MK # 3				

AZ Mark Station	710015A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710015A	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	151,310.4748	
Easting (M)	353,342.4437	
Elevation (M)*	388.681	
Northing (SFT)	496,424.4494	
Easting (SFT)	1,159,257.6674	
Elevation (SFT)*	1,275.197	

Convergence Angle	0	17	59.9722100
Scale Factor	0.999937834		
Elevation Adjust. Factor	0.9999390070		
Combined Adjust. Factor	0.9998768448		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	41	45.9783312
Longitude	92	30	55.9440252
Ellipsoid Height (M):	360.900		
Geoid Height (M):	-27.790		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 8.0 MILES TO MARK ON THE LEFT. SOUTHWEST 19.0 FEET OF THE EDGE OF HIGHWAY 65 PAVEMENT AND NORTHEAST 14.9 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710015A 2012" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH LIGHT	305	16.15	53.0
MK # 2	TELEPHONE BOX	312	17.89	58.7
MK # 3				

AZ Mark Station	710015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710016	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	153,683.7313	
Easting (M)	352,931.3696	
Elevation (M)*	418.593	
Northing (SFT)	504,210.7084	
Easting (SFT)	1,157,909.0018	
Elevation (SFT)*	1,373.333	

Convergence Angle	0	18	9.7773076
Scale Factor	0.999938629		
Elevation Adjust. Factor	0.9999343134		
Combined Adjust. Factor	0.9998729465		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	43	2.9145540
Longitude	92	31	12.7941924
Ellipsoid Height (M):	390.812		
Geoid Height (M):	-27.787		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 9.6 MILES TO MARK ON THE LEFT. WEST 40.0 FEET OF THE CENTERLINE HIGHWAY 65 AND EAST 23.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710016 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 2 GUYS	301	15.85	52.0
MK # 2				
MK # 3				

AZ Mark Station	710016A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710016A	2/21/2012	AHTD	VAN BUREN	65	3_2,080468,Mobile LiDAR-CL

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	154,080.6094	
Easting (M)	352,720.9860	
Elevation (M)*	433.857	
Northing (SFT)	505,512.7993	
Easting (SFT)	1,157,218.7682	
Elevation (SFT)*	1,423.413	

Convergence Angle	0	18	14.6969837
Scale Factor	0.999938775		
Elevation Adjust. Factor	0.9999319183		
Combined Adjust. Factor	0.9998706975		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	43	15.7560960
Longitude	92	31	21.2487096
Ellipsoid Height (M):	406.100		
Geoid Height (M):	-27.788		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 EAST AND STATE HIGHWAY 65, NORTH OF CLINTON, GO NORTH ON HIGHWAY 65 9.9 MILES TO MARK ON THE LEFT. SOUTHWEST 48.0 FEET OF THE CENTERLINE HIGHWAY 65 AND NORTHEAST 19.7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710016A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 3 GUYS	167	15.60	51.2
MK # 2	TELEPHONE BOX	160	20.60	67.6
MK # 3				

AZ Mark Station	710016
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. ESTABLISHED FROM DIGITAL LEVELS FROM 2ND ORDER NGS BM "N 48" TO 3RD ORDER NGS BM'S "D 28 RESET" & "U 146 RESET" BY CLS IN AUG. 2012. CONVERTED 3RD ORDER BM PUBLISHED ELEVATIONS FROM METERS TO US SURVEY FEET AND GAVE THEM A STD. ERROR OF 0.035' BEFORE PROCESSING.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710017	2/24/2012	AHTD	VAN BUREN	124	080445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	116,280.5212	
Easting (M)	374,049.2090	
Elevation (M)*	170.520	
Northing (SFT)	381,497.0100	
Easting (SFT)	1,227,193.1132	
Elevation (SFT)*	559.447	

Convergence Angle	0	9	58.3290010	
Scale Factor	0.999942185			
Elevation Adjust. Factor	0.9999732406			
Combined Adjust. Factor	0.9999154272			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	22	52.0357080	
Longitude	92	17	8.2349160	
Ellipsoid Height (M):	142.806			
Geoid Height (M):	-27.734			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25, 107 AND 124, WEST OF QUITMAN, GO WEST ON HIGHWAY 124 3.75 MILES TO THE MARK ON THE LEFT, 15 FEET SOUTH OF A ASPHAULT DRIVE AND SOUTHWEST 32 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710017 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST END GATE POST	268	7.41	24.3
MK # 2	END OF FENCE	170	13.72	45.0
MK # 3				

AZ Mark Station	710017A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

ELEVATIONS WERE ESTABLISHED BY CREW S5112 ON 2/28/12 BY 3 WIRE DIGITAL LEVELS USING BENCH MARK TT 21 RDM AND CHECKED BY OCCUPYING BENCH MARK H 210 USING GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710017A	2/24/2012	AHTD	VAN BUREN	124	080445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	116,050.0758	
Easting (M)	374,485.0341	
Elevation (M)*	185.481	
Northing (SFT)	380,740.9570	
Easting (SFT)	1,228,622.9827	
Elevation (SFT)*	608.534	

Convergence Angle	0	9	48.2653922
Scale Factor	0.999942313		
Elevation Adjust. Factor	0.9999708928		
Combined Adjust. Factor	0.9999132074		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	22	44.5985472
Longitude	92	16	50.9404944
Ellipsoid Height (M):	157.765		
Geoid Height (M):	-27.730		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 25, 107 AND 124, WEST OF QUITMAN, GO WEST ON HIGHWAY 124 3.45 MILES TO THE MARK ON THE RIGHT, 46 FEET EAST OF A DRIVE AND NORTH 39.9 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "710017A 2012" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	24	19.08	62.6
MK # 2	WATER METER	357	6.55	21.5
MK # 3				

AZ Mark Station	710017
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

ELEVATIONS WERE ESTABLISHED BY CREW S5112 ON 2/28/12 BY 3 WIRE DIGITAL LEVELS USING BENCH MARK TT 21 RDM AND CHECKED BY OCCUPYING BENCH MARK H 210 USING GPS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710018	10/14/2013	AHTD	VAN BUREN	92	FSX005

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	128,987.7518	0.0040
Easting (M)	371,856.2471	0.0040
Elevation (M)*	221.478	
Northing (SFT)	423,187.3157	
Easting (SFT)	1,219,998.3707	
Elevation (SFT)*	726.634	

Convergence Angle	0	10	49.8132514	
Scale Factor			0.999937126	
Elevation Adjust. Factor			0.9999652440	
Combined Adjust. Factor			0.9999023722	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	29	44.1607812	
Longitude	92	18	36.7111620	
Ellipsoid Height (M):	193.806			0.0083
Geoid Height (M):	-27.672			0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 92 AND STATE HIGHWAY 356, EAST OF BEE BRANCH, GO EAST ON HIGHWAY 92 3.8 MILES TO THE MARK ON THE LEFT, SOUTH 65 FEET OF THE CENTER LINE OF BOONE LANE, NORTHWEST 83 FEET OF THE CENTERLINE OF THE HIGHWAY AND WEST 38 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 710018" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 3 GUYS	75	11.28	37.0
MK # 2	FENCE CORNER	293	39.01	128.0
MK # 3				

AZ Mark Station	710018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARBT
Ref Mon # 3	ARLR

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS BY S5112 IN OCT. 13 FOR JOB #FSX005 FROM 3RD ORDER USGS BM 15 JWO 1972 CONVERTED FROM NGVD 29 TO NAVD 88 USING VERTCON. **NOTE: PERFORMED CHECK USING STATIC GPS FROM & CONSTRAINING AHTD GPS #710006 WHICH IS BASED ON NGS 2ND ORDER BM H 210 & THE GPS DERIVED ELEV. DIFFERED BY +0.012'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710018A	10/14/2013	AHTD	VAN BUREN	92	FSX005

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	129,038.9771	0.0040
Easting (M)	372,691.0046	0.0040
Elevation (M)*	222.160	

Northing (SFT)	423,355.3774	
Easting (SFT)	1,222,737.0709	
Elevation (SFT)*	728.869	

Convergence Angle	0	10	30.5432096
Scale Factor	0.999937113		
Elevation Adjust. Factor	0.9999651371		
Combined Adjust. Factor	0.9999022523		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	35	29	45.9070620
Longitude	92	18	3.5953848
Ellipsoid Height (M):	194.499		0.0068
Geoid Height (M):	-27.661		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 92 AND STATE HIGHWAY 356, EAST OF BEE BRANCH, GO EAST ON HIGHWAY 92 4.3 MILES TO THE MARK ON THE RIGHT, WEST 11 FEET OF THE CENTER LINE OF AN ASPHAULT DRIVE, SOUTH 19 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 19 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "2013 710018A" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WESTERN MOST GATE POST	169	5.97	19.6
MK # 2	UNDERGROUND CABLE MARKER	220	7.71	25.3
MK # 3				

AZ Mark Station	710018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARBT
Ref Mon # 3	ARLR

Comments

ELEV. ESTABLISHED BY 3RD ORDER DIGITAL LEVELS BY S5112 IN OCT. 13 FOR JOB #FSX005 FROM 3RD ORDER USGS BM 15 JWO 1972 CONVERTED FROM NGVD 29 TO NAVD 88 USING VERTCON. **NOTE: PERFORMED CHECK USING STATIC GPS FROM & CONSTRAINING AHTD GPS #710006 WHICH IS BASED ON NGS 2ND ORDER BM H 210 & THE GPS DERIVED ELEV. DIFFERED BY -0.008'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710019	5/28/2019	ARDOT	VAN BUREN	92	080612

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	122,667.3412	0.0020
Easting (M)	361,135.4835	0.0030
Elevation (M)*		
Northing (SFT)	402,451.1019	
Easting (SFT)	1,184,825.3321	
Elevation (SFT)*		

Convergence Angle	0	14	56.7086688	
Scale Factor	0.999939164			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	26	17.7650808	
Longitude	92	25	41.0036304	
Ellipsoid Height (M):	172.047		0.0140	
Geoid Height (M):	-27.937		0.0140	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 92, IN BEE BRANCH, GO WEST ON STATE HIGHWAY 92 2.1 MILES TO THE MARK ON RIGHT, NORTH 46.3' OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "710019 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/GUY	356	14.39	47.2
MK # 2				
MK # 3				

AZ Mark Station	710019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARJB
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710019A	5/28/2019	ARDOT	VAN BUREN	CR 27	080612

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	123,024.4381	0.0030
Easting (M)	361,150.5284	0.0030
Elevation (M)*		
Northing (SFT)	403,622.6773	
Easting (SFT)	1,184,874.6919	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	35	26	29.3546796	
Longitude	92	25	40.4686308	
Ellipsoid Height (M):	185.247	0.0140		
Geoid Height (M):	-27.932	0.0140		

Convergence Angle	0	14	56.3973530
Scale Factor	0.999939023		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 65 AND STATE HIGHWAY 92, IN BEE BRANCH, GO WEST ON STATE HIGHWAY 92 2.1 MILES TO N BRICKY RD (CR27), TURN RIGHT (NORTH) AND GO 0.2 MILES TO THE MARK ON LEFT, WEST 10.8' OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "710019A 2019" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	85	12.68	41.6
MK # 2	POWER POLE	191	15.67	51.4
MK # 3				

AZ Mark Station	710019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARJB
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710020	4/27/2020	ARDOT	VAN BUREN	16	080614

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	140,674.3566	0.0040
Easting (M)	361,624.6872	0.0040
Elevation (M)*		

Northing (SFT)	461,529.1183	
Easting (SFT)	1,186,430.3279	
Elevation (SFT)*		

Convergence Angle	0	14	47.2086214
Scale Factor			0.999935976
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	36	2.1390120
Longitude	92	25	24.6776952
Ellipsoid Height (M):	153.845		0.0160
Geoid Height (M):	-27.903		0.0160

Location Description

TO REACH STA FROM JCT OF US-65 & SR-16E IN CLINTON, GO EAST ON SR-16 2.1 MI TO STA ON RIGHT. 50' SOUTH OF C/L SR-16. 17.4 WEST OF A DW. STA IS A STANDARD 2½" CAP STAMPED "710020 2020" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TB	112	2.80	9.2
MK # 2	W END OF CUS	330	6.40	21.0
MK # 3				

AZ Mark Station	710020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710020A	4/27/2020	ARDOT	VAN BUREN	16	080614

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	140,980.6599	0.0040
Easting (M)	361,917.2980	0.0040
Elevation (M)*		
Northing (SFT)	462,534.0484	
Easting (SFT)	1,187,390.3352	
Elevation (SFT)*		

Convergence Angle	0	14	40.4739890	
Scale Factor	0.999935991			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	35	36	12.1187304	
Longitude	92	25	13.1041560	
Ellipsoid Height (M):	126.536		0.0160	
Geoid Height (M):	-27.895		0.0160	

Location Description

TO REACH STA FROM JCT OF US-65 & SR-16E IN CLINTON, GO EAST ON SR-16 2.4 MI TO STA ON LEFT. 29' NORTH OF C/L SR-16. STA IS A STANDARD 2½" CAP STAMPED "710020A 2020" ON TOP OF A 2' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PP/GY	64	4.90	16.1
MK # 2	BRACE POST	336	8.70	28.5
MK # 3	TB	252	30.50	100.1

AZ Mark Station	710020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710021	5/19/2020	ARDOT	VAN BUREN	95	08X193

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	137,973.2528	0.0020
Easting (M)	353,977.5988	0.0030
Elevation (M)*		
Northing (SFT)	452,667.2469	
Easting (SFT)	1,161,341.5054	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	34	33.3191568	
Longitude	92	30	27.9434484	
Ellipsoid Height (M):	154.516			0.0130
Geoid Height (M):	-28.002			0.0130

Convergence Angle	0	17	43.6786987
Scale Factor	0.999935946		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-65B & SR-95 IN CLINTON, GO S ON SR-95 3.3 MILES TO STATION ON RIGHT. 37.5' W OF C/L SR-95. 66.7' W OF A DRIVWAY. 27.3' E OF A FENCE. THE MARK IS A STANDARD 2½" CAP STAMPED "710021 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	710021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARM3, ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
710021A	5/19/2020	ARDOT	VAN BUREN	95	08X193

Zone	Zone Code
Arkansas North	301

Horizontal Datum		
Northing (M)	138,121.9430	
Easting (M)	354,213.4903	
Elevation (M)*		
Northing (SFT)	453,155.0747	
Easting (SFT)	1,162,115.4261	
Elevation (SFT)*		

Convergence Angle	0	17	38.2444552
Scale Factor	0.999935943		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	34	38.1832788
Longitude	92	30	18.6046416
Ellipsoid Height (M):	154.267		
Geoid Height (M):	-27.999		

Location Description

TO REACH THE STATION MARK FROM THE JCT OF US-65B & SR-95 IN CLINTON, GO S ON SR-95 3.1 MILES TO STATION ON RIGHT. 36' N OF C/L SR-95. 8.3' E OF A FENCE. THE MARK IS A STANDARD 2½" CAP STAMPED "710021A 2020" ON TOP OF A 5/8' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	221	3.81	12.5
MK # 2				
MK # 3				

AZ Mark Station	710021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARM3, ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720001	3/16/1991	AHTD	WASHINGTON	412	1634,BR0405

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	208,463.1843	0.0040
Easting (M)	190,156.4331	0.0040
Elevation (M)*		

Northing (SFT)	683,932.9638	
Easting (SFT)	623,871.5643	
Elevation (SFT)*		

Convergence Angle	-1	21	27.6861697
Scale Factor			0.999991707
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	11	23.6686056
Longitude	94	19	59.5462080
Ellipsoid Height:			294.503
Grid Northing (Meters)			208,463.7730
Grid Easting (Meters)			190,156.3420

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	36	11	23.6495832	
Longitude	94	19	59.5420068	
Ellipsoid Height (M):			295.196	0.0080
Geoid Height (M):			-28.185	0.0080

Location Description

FROM THE WASHINGTON AND BENTON CO. LINE, GO 0.10 MILES EAST ON HWY. 412 TO A COUNTY ROAD ON THE RIGHT AND THE STATION, THE STATION IS IN A PASTURE NEAR FENCE CORNER, 12.00 FEET RIGHT OF THE CENTERLINE OF THE COUNTY ROAD, 55 FEET SOUTH OF THE CENTERLINE OF HWY. 412, 2.20 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TOP OF FENCE POST	332	4.42	14.5
MK # 2	NBC IN TOP OF FENCE POST	12	3.41	11.2
MK # 3	NBC IN TOP OF FENCE POST	80	1.89	6.2

AZ Mark Station	91720002 AZ. MK.
Geodetic Azimuth	173 41 48
Grid Azimuth	175 03 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	CTA1

Comments

OLD PN: 91720001 (Superceded Ref Monuments were Siloport, Decaport, & Bentport.)

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720002	3/16/1991	AHTD	WASHINGTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	207,314.8540	
Easting (M)	190,255.7600	
Elevation (M)*		
Northing (SFT)	680,165.4835	
Easting (SFT)	624,197.4393	
Elevation (SFT)*		

Convergence Angle	-1	21	24.7402069
Scale Factor	0.999989819		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	46.4802672
Longitude	94	19	54.4793376
Ellipsoid Height (M):	330.978		
Geoid Height (M):	-28.633		

Location Description

FROM THE STATE LINE IN SILOAM SPRINGS, GO 13.45 MILES EAST TO A COUNTY ROAD ON THE RIGHT, GO 0.25 MILES TO A HOUSE ON THE LEFT, FOLLOW FIELD ROAD FOR 0.85 MILES TO THE TOP OF THE SECOND HILL AND THE STATION, 2.20 FEET SOUTHWEST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE	0	0.00	0.0
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91720001
Geodetic Azimuth	353 41 51
Grid Azimuth	355 03 16

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91720002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720003	3/16/1991	AHTD	WASHINGTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	207,006.1229	
Easting (M)	194,016.5560	
Elevation (M)*		
Northing (SFT)	679,152.5882	
Easting (SFT)	636,535.9841	
Elevation (SFT)*		

Convergence Angle	-1	19	57.0195921
Scale Factor	0.999989460		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	39.3299472
Longitude	94	17	23.7305040
Ellipsoid Height (M):	353.674		
Geoid Height (M):	-28.615		

Location Description

FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 2.60 MILES EAST ON HWY. 412 TO THE STATION ON THE LEFT, THE STATION IS 3.75 FEET SOUTH OF A WITNESS POST AND 34.00 FEET FROM THE CENTERLINE OF HWY. 412.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN TOP OF FENCE POST	55	2.84	9.3
MK # 2	NONE	0	0.00	0.0
MK # 3	NONE	0	0.00	0.0

AZ Mark Station	91720004 AZ. MK.
Geodetic Azimuth	93 05 00
Grid Azimuth	94 24 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91720003 Monument Disturbed - DO NOT USE. THIS POINT WAS REFERENCED BY THE RE'S OFFICE AND WILL BE PUT BACK IN AFTER THE JOB IS COMPLETE. SINCE THE MONUMENT WILL BE DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720004	3/16/1991	AHTD	WASHINGTON	412	1634

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	206,957.9480	
Easting (M)	194,640.3850	
Elevation (M)*		

Northing (SFT)	678,994.5344	
Easting (SFT)	638,582.6631	
Elevation (SFT)*		

Convergence Angle	-1	19	42.4708349
Scale Factor	0.999989405		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	38.2373328
Longitude	94	16	58.7283060
Ellipsoid Height (M):	358.597		
Geoid Height (M):	-28.613		

Location Description

FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 3.20 MILES TO THE STATION ON THE RIGHT, STATION IS AT THE CORNER OF A WOODEN FENCE, THE STATION IS 1.25 FEET NORTH OF A WITNESS POST AND 33.80 FEET SOUTH OF THE CENTERLINE OF HWY. 412.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN SIDE OF FENCE POST	178	0.55	1.8
MK # 2	NBC IN SIDE OF FENCE POST	228	0.53	1.7
MK # 3	NBC IN TOP OF FENCE POST	256	3.05	10.0

AZ Mark Station	91720003
Geodetic Azimuth	273 05 14
Grid Azimuth	274 24 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	DECAPORT
Ref Mon # 3	BENTPORT

Comments

OLD PN: 91720004 Monument Disturbed - DO NOT USE. THIS POINT WAS REFERENCED BY THE RE'S OFFICE AND WILL BE PUT BACK IN AFTER THE JOB IS COMPLETE. SINCE THE MONUMENT WILL BE DISTURBED, DO NOT USE THE STATION FOR HORIZONTAL OR VERTICAL CONTROL.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720005	3/16/1991	AHTD	Washington	412	012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	206,652.6910
Easting (M)	201,201.2710
Elevation (M)*	395.183
Northing (SFT)	677,993.0371
Easting (SFT)	660,107.8366
Elevation (SFT)*	1,296.531

Convergence Angle	-1	17	9.5717550
Scale Factor			0.999989152
Elevation Adjust. Factor			0.9999379867
Combined Adjust. Factor			0.9999271393

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	10	33.2110488
Longitude	94	12	35.9759304
Ellipsoid Height:			
Grid Northing (Meters)			206,653.2727
Grid Easting (Meters)			201,201.1250

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	33.1922856
Longitude	94	12	35.9695692
Ellipsoid Height (M):	367.186		
Geoid Height (M):	-28.005		

Location Description

FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 4.75 MILES EAST ON HWY. 412 TO THE STATION ON THE LEFT, THE STATION IS 150 FEET EAST OF A PAVED COUNTY ROAD, 7.20 FEET BACK OF A CONCRETE CURB AND 3.10 FEET SOUTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN COMBINATION POLE	262	30.45	99.9
MK # 2				
MK # 3				

AZ Mark Station	720006
Geodetic Azimuth	94 08 45
Grid Azimuth	95 25 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY 040018
Ref Mon # 2	WWED 040044
Ref Mon # 3	

Comments

Digital Levels ran by crew S5101 in December 2009 from GPS mark 040009 which was based on NGS marks Q 310, J 27, K 310, A 27, L 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720006	3/16/1991	AHTD	Washington	412	012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	206,600.1150
Easting (M)	201,754.1900
Elevation (M)*	396.146
Northing (SFT)	677,820.5440
Easting (SFT)	661,921.8717
Elevation (SFT)*	1,299.690

Convergence Angle	-1	16	56.6724305
Scale Factor			0.999989087
Elevation Adjust. Factor			0.9999378356
Combined Adjust. Factor			0.9999269233

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	10	31.9082304
Longitude	94	12	13.8084516
Ellipsoid Height:			
Grid Northing (Meters)			206,600.7116
Grid Easting (Meters)			201,754.0406

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	31.8889884
Longitude	94	12	13.8019392
Ellipsoid Height (M):	368.149		
Geoid Height (M):	-28.002		

Location Description

FROM THE WASHINGTON AND BENTON COUNTY LINE, GO 7.70 MILES EAST ON HWY. 412 TO THE STATION ON THE RIGHT, THE STATION IS 33.60 FEET FROM BACK OF A CONCRETE CURB AND 1.90 FEET NORTH OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN TELEPHONE POLE	278	21.58	70.8
MK # 2	NBC IN SIDE OF FENCE POST	241	2.27	7.4
MK # 3	NBC IN SIDE OF FENCE POST	93	3.99	13.1

AZ Mark Station	720005
Geodetic Azimuth	274 08 58
Grid Azimuth	275 25 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720008	5/11/1993	AHTD	WASHINGTON	170	40128

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	162,413.8530	
Easting (M)	195,892.9990	
Elevation (M)*		
Northing (SFT)	532,852.7827	
Easting (SFT)	642,692.2809	
Elevation (SFT)*		

Convergence Angle	-1	18	49.5281842
Scale Factor	0.999941528		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	46	34.2899580
Longitude	94	15	27.7457832
Ellipsoid Height (M):	321.952		
Geoid Height (M):	-28.977		

Location Description

THE STATION IS LOCATED IN DEVILS DEN STATE PARK NORTH OF ALMA ON HWY. 170 0.77 MILES NORTH OF A BRIDGE OVER LEE CREEK AT THE JCT. OF CO. RD. NO. 61, 21 FEET WEST OF THE CENTERLINE OF HWY. 170 AND 21.85 FEET NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"SQUARE" CUT IN CONCRETE HEADWALL	64	30.36	99.6
MK # 2	NBC IN 12" WHITE OAK	139	20.88	68.5
MK # 3	NBC IN 24" RED OAK	222	29.35	96.3

AZ Mark Station	SEE NOTES
Geodetic Azimuth	283 11 25.2
Grid Azimuth	284 30 14.72

Area Reference Monuments (used for Processing)

Ref Mon # 1	BOSTON AZ. #2
Ref Mon # 2	GRASSY ROCK RESET
Ref Mon # 3	NONE

Comments

AZIMUTH MARK IS VPT-616 ON JOB 40128 (DETERMINED BY SUNSHOT FROM STATION 93720008)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720009	6/28/1994	AHTD	WASHINGTON	62	040397, R40081

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	182,103.2049
Easting (M)	184,054.7940
Elevation (M)*	
Northing (SFT)	597,450.2647
Easting (SFT)	603,853.1033
Elevation (SFT)*	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	57	3.8968056
Longitude	94	23	38.0332500
Ellipsoid Height (M):	411.858		
Geoid Height (M):	-28.161		

Convergence Angle	-1	23	34.8260336
Scale Factor	0.999956375		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 2.977 KM (1.85 MILES) TO THE JCT. OF HWY. 62 AND CO. RD. NO. 620 AND THE STATION ON THE LEFT. THE STATION IS 13.30 METERS NORTHWEST OF THE CENTERLINE OF HWY. 62, 9.00 METERS SOUTH OF THE CENTER OF CO. RD. NO. 620 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720009" SET ON A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	15	15.75	51.7
MK # 2	GAS METER	28	18.00	59.1
MK # 3	GUY POLE	78	4.80	15.7

AZ Mark Station	720009A
Geodetic Azimuth	91 45 03
Grid Azimuth	93 08 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720009A	6/28/1994	AHTD	WASHINGTON	62	040397, R40081

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	182,079.3179	
Easting (M)	184,489.6940	
Elevation (M)*		
Northing (SFT)	597,371.8955	
Easting (SFT)	605,279.9377	
Elevation (SFT)*		

Convergence Angle	-1	23	24.7170024
Scale Factor	0.999956361		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	57	3.4646832
Longitude	94	23	20.6607696
Ellipsoid Height (M):	413.533		
Geoid Height (M):	-28.155		

Location Description

FROM THE POST OFFICE IN LINCOLN, GO EAST ON HWY. 62 FOR 3.460 KM (2.15 MILES) TO A DRIVEWAY AND THE STATION ON THE RIGHT. THE STATION IS 11.10 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 10 METERS WEST OF THE CENTER OF A DRIVEWAY AND 0.42 METERS NORTH OF A WITNESS POST SET ALONG A WOODEN FENCE. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "720009A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO (HARN) IN OCTOBER 2002.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF 45CM METAL CULVERT	58	5.40	17.7
MK # 2	TELEPHONE JUNCTION BOX	89	24.60	80.7
MK # 3	CORNER FENCE POST	95	4.85	15.9

AZ Mark Station	720009
Geodetic Azimuth	271 45 13
Grid Azimuth	273 08 38

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720015	7/23/1996	AHTD	WASHINGTON	59	001742

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	187,441.1950	
Easting (M)	175,417.7030	
Elevation (M)*	355.684	
Northing (SFT)	614,963.3206	
Easting (SFT)	575,516.2473	
Elevation (SFT)*	1,166.940	

Convergence Angle	-1	26	58.4540892
Scale Factor	0.999961848		
Elevation Adjust. Factor	0.9999441847		
Combined Adjust. Factor	0.9999060348		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	59	50.0884296
Longitude	94	29	27.9702852
Ellipsoid Height (M):	326.884		
Geoid Height (M):	-28.805		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 59 IN THE SMALL TOWN OF SUMMERS ABOUT 24 KILOMETERS SOUTH OF SILOAM SPRINGS AND 6.5 KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 2.09 KM. (1.30 MI.) TO THE STATION ON THE RIGHT. 74.8 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 10.98 METERS EAST-NORTHEAST OF THE CENTER OF HWY-59 AND 0.82 METERS WEST-SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720015 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	165	18.48	60.6
MK # 2	USGS BENCHMARK "7 SEM 1969"	220	29.64	97.2
MK # 3	WOODEN FENCE POST	352	12.35	40.5

AZ Mark Station	720015A
Geodetic Azimuth	183 18 56.12103
Grid Azimuth	184 45 54.57164

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	SPRINGDALE
Ref Mon # 3	720009

Comments

ELEVATION BY 3-WIRE USING USGS BENCHMARK "7 SEM 1969" ELEVATION = 356.059 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720015A	7/23/1996	AHTD	WASHINGTON	59	001742

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	186,924.7809	
Easting (M)	175,374.6540	
Elevation (M)*	354.852	
Northing (SFT)	613,269.0520	
Easting (SFT)	575,375.0107	
Elevation (SFT)*	1,164.210	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	35	59	33.3030444	
Longitude	94	29	29.1669000	
Ellipsoid Height (M):	326.042			
Geoid Height (M):	-28.809			

Convergence Angle	-1	26	59.1503984
Scale Factor	0.999961266		
Elevation Adjust. Factor	0.9999443153		
Combined Adjust. Factor	0.9999055834		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE ROUTE 59 IN THE SMALL TOWN OF SUMMERS ABOUT 24 KILOMETERS SOUTH OF SILOAM SPRINGS AND 6.5 KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 1.61 KM. (1.0 MI.) TO THE STATION ON THE LEFT. 20.33 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE, 11.68 METERS WEST OF THE CENTER OF HWY-59 AND 1.20 METERS EAST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720015A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	118	28.50	93.5
MK # 2	RAILROAD CROSS TIE GATE POST	180	18.00	59.0
MK # 3	0.61 METER ELM	353	30.52	100.1

AZ Mark Station	720015
Geodetic Azimuth	3 18 55.41778
Grid Azimuth	4 45 54.57164

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	SPRINGDALE
Ref Mon # 3	720009

Comments

ELEVATION BY 3-WIRE USING USGS BENCHMARK "7 SEM 1969" ELEVATION = 356.059 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720016	7/23/1996	AHTD	WASHINGTON	59	001742

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	191,564.1990	
Easting (M)	173,884.2680	
Elevation (M)*	325.072	
Northing (SFT)	628,490.2096	
Easting (SFT)	570,485.3026	
Elevation (SFT)*	1,066.507	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	2	2.5550052	
Longitude	94	30	33.3714600	
Ellipsoid Height (M):	296.134			
Geoid Height (M):	-28.783			

Convergence Angle	-1	27	36.5109758	
Scale Factor	0.999966675			
Elevation Adjust. Factor	0.9999489882			
Combined Adjust. Factor	0.9999156649			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE ROUTE 59 IN THE SMALL TOWN OF SUMMERS, ABOUT 24 KILOMETERS SOUTH OF SILOAM SPRINGS AND 6.4KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 6.84 KM. (4.25 MI.) TO THE SOUTH EDGE OF THE SMALL TOWN OF CINCINNATI AND THE STATION ON THE RIGHT AND THE CINCINNATI UNITED METHODIST CHURCH ON THE LEFT. 11.47 METERS EAST-NORTHEAST OF THE CENTER OF HWY-59 AND 0.73 METERS WEST-SOUTHWEST OF A WITNESS POST SET NEAR A WEB WIRE FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720016 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	152	15.38	50.5
MK # 2	USGS BENCH MARK "6 SEM 1969"	280	30.48	100.0
MK # 3	NONE			

AZ Mark Station	720016A
Geodetic Azimuth	151 24 10.70234
Grid Azimuth	152 51 47.24233

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	SPRINGDALE
Ref Mon # 3	720009

Comments

ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969"
ELEVATION = 325.597 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720016A	7/23/1996	AHTD	WASHINGTON	59	001742

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	191,138.7949	
Easting (M)	174,102.3040	
Elevation (M)*	332.559	
Northing (SFT)	627,094.5296	
Easting (SFT)	571,200.6424	
Elevation (SFT)*	1,091.071	

Convergence Angle	-1	27	31.1927716
Scale Factor	0.999966160		
Elevation Adjust. Factor	0.9999478134		
Combined Adjust. Factor	0.9999139751		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	1	48.9372780
Longitude	94	30	24.2320680
Ellipsoid Height (M):	303.774		
Geoid Height (M):	-28.785		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE ROUTE 59 IN THE SMALL TOWN OF SUMMERS, ABOUT 24 KM. SOUTH OF SILOAM SPRINGS AND 6.5 KM. WEST OF LINCOLN GO NORTH ON HWY-59 FOR 6.36 KM. (3.95 MI.) TO THE STATION ON THE RIGHT NEAR THE NORTHWEST CORNER OF A CEMETERY. 109 METERS NORTH-NORTHWEST OF THE CENTER OF COUNTY ROAD #9, 18.65 METERS NORTHWEST OF OF THE CEMETERY ENTRANCE, 12.98 METERS NORTHEAST OF THE CENTER OF HWY-59 AND 0.52 METERS SOUTHWEST OF A WITNESS POST.THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720016A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER FENCE POST	138	15.19	49.8
MK # 2	WOODEN FENCE POST	242	25.74	84.4
MK # 3	NONE			

AZ Mark Station	720016
Geodetic Azimuth	331 24 16.07848
Grid Azimuth	332 51 47.24233

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	SPRINGDALE
Ref Mon # 3	720009

Comments

ELEVATION BY 3-WIRE USING USGS BENCHMARK "6 SEM 1969" ELEVATION = 325.597 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720017	7/23/1996	AHTD	WASHINGTON	59	001742

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	195,234.6069	
Easting (M)	171,764.1060	
Elevation (M)*	357.091	
Northing (SFT)	640,532.2061	
Easting (SFT)	563,529.4044	
Elevation (SFT)*	1,171.556	

Convergence Angle	-1	28	27.9719966
Scale Factor			0.999971295
Elevation Adjust. Factor			0.9999439639
Combined Adjust. Factor			0.9999152605

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	3	59.8414716
Longitude	94	32	1.8077856
Ellipsoid Height (M):	328.312		
Geoid Height (M):	-28.779		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE ROUTE 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 12.96 KM. (8.05 MI.) TO THE STATION ON THE LEFT. 16.48 METERS SOUTH OF A FIELD ENTRANCE, 11.15 METERS EAST OF THE CENTER OF HWY-59 AND 0.55 METERS WEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720017 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRON PIPE GATE POST	355	14.35	47.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	720017A
Geodetic Azimuth	1 29 19.73324
Grid Azimuth	2 57 47.70738

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	SPRINGDALE
Ref Mon # 3	720009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720017A	7/23/1996	AHTD	WASHINGTON	59	001742

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	195,837.3509	
Easting (M)	171,795.3070	
Elevation (M)*	355.372	
Northing (SFT)	642,509.7087	
Easting (SFT)	563,631.7697	
Elevation (SFT)*	1,165.916	

Convergence Angle	-1	28	27.6073148
Scale Factor	0.999972097		
Elevation Adjust. Factor	0.9999442337		
Combined Adjust. Factor	0.9999163322		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	4	19.4170476
Longitude	94	32	1.1810760
Ellipsoid Height (M):	326.596		
Geoid Height (M):	-28.776		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE ROUTE 59 IN SILOAM SPRINGS GO SOUTH ON HWY-59 FOR 12.31 KM. (7.65 MI.) TO THE STATION ON THE LEFT. 44.0 METERS NORTH OF A FIELD ENTRANCE, 10.8 METERS EAST OF THE CENTER OF HWY-59 AND 0.64 METERS WEST OF A WITNESS POST SET NEAR A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720017A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER POST	185	38.84	127.4
MK # 2	WOODEN FENCE POST	209	39.22	128.7
MK # 3	FENCE CORNER POST	300	25.66	84.2

AZ Mark Station	720017
Geodetic Azimuth	181 29 20.10222
Grid Azimuth	182 57 47.70738

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOPORT
Ref Mon # 2	SPRINGDALE
Ref Mon # 3	720009

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720018 RESET	10/28/2002	AHTD	WASHINGTON	71/540	04822,040489,012069,040505

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	199,160.8679	
Easting (M)	204,673.6200	
Elevation (M)*	380.448	
Northing (SFT)	653,413.6141	
Easting (SFT)	671,500.0350	
Elevation (SFT)*	1,248.188	

Convergence Angle	-1	15	44.8914021
Scale Factor	0.999977801		
Elevation Adjust. Factor	0.9999402988		
Combined Adjust. Factor	0.9999181011		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	32.6915532
Longitude	94	10	10.4454588
Ellipsoid Height (M):	352.476		
Geoid Height (M):	-27.972		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71(I 540) & U.S. HIGHWAY 62, AND STATE HIGHWAY 112 ON THE NORTH EDGE OF FAYETTEVILLE, GO NORTH ON U.S. 71 & 62 (I 540) FOR 0.85 MILES TO THE STATION ON THE RIGHT NEAR THE SOUTH END OF AN OVERPASS. THE STATION IS 9.50 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71 (I 540) AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720018 RESET 2002" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD BENCH MARK DISC	347	2.35	7.7
MK # 2	PUNCH MARK IN TOP OF GUARL RAIL POST	253	2.75	9.0
MK # 3	PUNCH MARK IN TOP OF GUARD RAIL POS T	225	6.52	21.4

AZ Mark Station	720018A
Geodetic Azimuth	64 16 51
Grid Azimuth	65 32 36

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	ENES
Ref Mon # 3	V 26

Comments

3-Wire Levels ran from NGS Marks C 27, K 310, & A 27 on 2-23-07 by crew S5101 on JOB 040489. Verified by 3 wire levels by crew S5101 in October 07 fron NGS marks Q 310, J 27, K 310, & A 27.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720019 (p.1)	12/9/1997	AHTD	WASHINGTON	112	R40023

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	202,128.5130
Easting (M)	201,776.9310
Elevation (M)*	349.953
Northing (SFT)	663,149.9631
Easting (SFT)	661,996.4811
Elevation (SFT)*	1,148.137

Convergence Angle	-1	16	53.8141240
Scale Factor			0.999982083
Elevation Adjust. Factor			0.9999450840
Combined Adjust. Factor			0.9999271680

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	8	6.8649648
Longitude	94	12	8.8899084
Ellipsoid Height:			321.955
Grid Northing (Meters)			202,128.5130
Grid Easting (Meters)			201,776.9310

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	6.8649648
Longitude	94	12	8.8899084
Ellipsoid Height (M):	321.955		
Geoid Height (M):	-27.998		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 112 ON THE NORTHWEST SIDE OF FAYETTEVILLE, GO NORTHERLY ON STATE HWY-112 FOR 4.67 KM. (2.90 MI.) TO THE STATION ON THE LEFT. 19.0 METERS NORTH OF THE NORTHWEST END OF A BRIDGE OVER "CLEAR CREEK", 7.85 METERS WEST OF THE CENTER OF HWY-112, 6.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE AND 0.87 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720019 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH POINT IN TOP OF GUARD RAIL POST	356	5.85	19.2
MK # 2	PUNCH POINT IN TOP OF GUARD RAIL POST	8	2.10	6.9
MK # 3	PUNCH POINT IN TOP OF GUARD RAIL POST	155	3.89	12.8

AZ Mark Station	720019A
Geodetic Azimuth	178 53 01.79350
Grid Azimuth	180 09 55.60844

Area Reference Monuments (used for Processing)

Ref Mon # 1	FLINT
Ref Mon # 2	OLD MAIN
Ref Mon # 3	V 26

Comments

SEE DATASHEET FOR 720019 (p.2) FOR LATEST OBSERVED POSITION ON THIS GPS POINT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720019 (p.2)	12/9/1997	AHTD	WASHINGTON	112	012270, 040751

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	202,128.5064	0.0020
Easting (M)	201,776.9380	0.0020
Elevation (M)*	349.908	

Northing (SFT)	663,149.9414	
Easting (SFT)	661,996.5041	
Elevation (SFT)*	1,147.989	

Convergence Angle	-1	16	53.8139585
Scale Factor	0.999982083		
Elevation Adjust. Factor	0.9999450911		
Combined Adjust. Factor	0.9999271751		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels	
Elevation Datum:	NAVD 88	
Geoid Datum:	GEOID12B	
Latitude	36 8 6.8647560	
Longitude	94 12 8.8896240	
Ellipsoid Height (M):	321.804	0.0040
Geoid Height (M):	-28.102	0.0040

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 112 ON THE NORTHWEST SIDE OF FAYETTEVILLE, GO NORTHERLY ON STATE HWY-112 FOR 4.67 KM. (2.90 MI.) TO THE STATION ON THE LEFT. 19.0 METERS NORTH OF THE NORTHWEST END OF A BRIDGE OVER "CLEAR CREEK", 7.85 METERS WEST OF THE CENTER OF HWY-112, 6.50 METERS EAST OF THE CENTER OF A GRAVEL DRIVE AND 0.87 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720019 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT IN TOP OF GUARD RAIL POST	356	5.85	19.2
MK # 2	PUNCH POINT IN TOP OF GUARD RAIL POST	8	2.10	6.9
MK # 3	PUNCH POINT IN TOP OF GUARD RAIL POST	155	3.89	12.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

SEE DATASHEET FOR 720019 (p.1) FOR PREVIOUS OBSERVED POSITIONS ON THIS GPS POINT.
**********ELEV.
BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720021	9/11/2000	AHTD	WASHINGTON	I-540	040354, 012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	206,573.1304	
Easting (M)	203,370.5075	
Elevation (M)*	409.264	
Northing (SFT)	677,732.0120	
Easting (SFT)	667,224.7400	
Elevation (SFT)*	1,342.726	

Convergence Angle	-1	16	19.0307175
Scale Factor	0.999989101		
Elevation Adjust. Factor	0.9999357773		
Combined Adjust. Factor	0.9999248790		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	32.1825540
Longitude	94	11	9.1142448
Ellipsoid Height (M):	381.291		
Geoid Height (M):	-27.994		

Location Description

THE STATION IS LOCATED ON THE WEST SIDE OF SPRINGDALE AT THE JUNCTION OF I 540 AND U.S. HIGHWAY 412, SET ON THE NORTH SIDE OF U.S. HIGHWAY 412 IN THE MEDIAN OF I 540. THE STATION IS 12.40 METERS WEST OF THE CENTER OF THE NORTH BOUND LANE OF I 540, 7.38 METERS EAST OF THE BACK OF A CRUB AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720021 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.119 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CHISELED "X" IN NORTHWEST CORNER OF BRIDGE	89	5.70	18.7
MK # 2	CHISELED "X" IN NORTHEAST CORNER OF BRIDGE	265	6.68	21.9
MK # 3	PUNCH MARK IN TOP OF METAL GUARD R AIL POST	334	9.00	29.5

AZ Mark Station	720021A
Geodetic Azimuth	38 32 53.951654
Grid Azimuth	39 49 13.038388

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	ENES
Ref Mon # 3	H37 A

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720021A	9/11/2000	AHTD	WASHINGTON	I-540	040354, 012111, 040894

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,984.8930	0.0020
Easting (M)	203,713.8339	0.0020
Elevation (M)*	401.019	

Northing (SFT)	679,082.9365	
Easting (SFT)	668,351.1367	
Elevation (SFT)*	1,315.676	

Convergence Angle	-1	16	11.2505625
Scale Factor	0.999989784		
Elevation Adjust. Factor	0.9999370710		
Combined Adjust. Factor	0.9999268557		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	10	45.7848192
Longitude	94	10	55.7450508
Ellipsoid Height:	373.074		
Grid Northing (Meters)	206,984.8739		
Grid Easting (Meters)	203,713.8063		

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	10	45.7854600
Longitude	94	10	55.7439636
Ellipsoid Height (M):	372.901		0.0060
Geoid Height (M):	-28.097		0.0060

Location Description

TO REACH THE STATION FRON THE JUNCTION OF I 540 AND U.S. HIGHWAY 412, LOCATED ON THE WEST SIDE OF SPRINGDALE GO NORTH ON I 540 FOR 0.54 KM (0.34 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.00 METERS NORTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF I 540 AND 0.86 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720021A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 536.119 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH IN LINE BRACE POST	23	2.22	7.3
MK # 2	METAL LIGHT POLE	43	15.25	50.0
MK # 3	NONE			

AZ Mark Station	720021
Geodetic Azimuth	218 33 01.84334
Grid Azimuth	219 49 13.03839

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (V 26)
Ref Mon # 2	ARHR (ENES)
Ref Mon # 3	CTA1, V 26 (H37 A)

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.
**********SUPERCEDED GEOID HT. WAS -27.993m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720022	9/17/2001	AHTD	WASHINGTON	62	R40082, 040411

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	185,985.4699	
Easting (M)	192,883.8340	
Elevation (M)*	348.088	
Northing (SFT)	610,187.3292	
Easting (SFT)	632,819.7120	
Elevation (SFT)*	1,142.019	

Convergence Angle	-1	20	11.9709057
Scale Factor	0.999960694		
Elevation Adjust. Factor	0.9999453766		
Combined Adjust. Factor	0.9999060728		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	59	16.6479972
Longitude	94	17	49.4244996
Ellipsoid Height (M):	320.285		
Geoid Height (M):	-28.052		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 8.175 KM (5.08 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.55 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62, 1.90 METERS WEST OF A WHITE WOODEN FENCE, AND 1.75 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720022 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 533.832 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	720022A
Geodetic Azimuth	220 30 27
Grid Azimuth	221 50 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720022A	9/17/2001	AHTD	WASHINGTON	62	R40082, 040411

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	185,587.8129	
Easting (M)	192,527.7350	
Elevation (M)*	358.589	
Northing (SFT)	608,882.6828	
Easting (SFT)	631,651.4106	
Elevation (SFT)*	1,176.469	

Convergence Angle	-1	20	20.0253607
Scale Factor			0.999960247
Elevation Adjust. Factor			0.9999437289
Combined Adjust. Factor			0.9999039782

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	59	3.4794816
Longitude	94	18	3.2661684
Ellipsoid Height (M):	330.788		
Geoid Height (M):	-28.057		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 8.690 KM (5.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.40 METERS WEST OF THE CENTER OF U.S. HIGHWAY 62, 1.92 METERS EAST OF A SPLIT RAIL FENCE, AND 1.62 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720022A 2001" SET ON TOP OF AN IRON ROD 0.52 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 533.832 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	35	38.80	127.3
MK # 2	COMBINATION POLE	213	42.00	137.8
MK # 3				

AZ Mark Station	720022
Geodetic Azimuth	40 30 19
Grid Azimuth	41 50 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720023	9/17/2001	AHTD	WASHINGTON	62	R40082

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	189,609.2869	
Easting (M)	195,301.4710	
Elevation (M)*	390.144	
Northing (SFT)	622,076.4688	
Easting (SFT)	640,751.5761	
Elevation (SFT)*	1,279.997	

Convergence Angle	-1	19	17.7631684
Scale Factor	0.999964932		
Elevation Adjust. Factor	0.9999387774		
Combined Adjust. Factor	0.9999037116		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	16.0127796
Longitude	94	16	16.2679116
Ellipsoid Height (M):	362.117		
Geoid Height (M):	-28.027		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 3.862 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.65 METERS SOUTH OF THE CENTER OF A GRAVEL ROAD (WASHINGTON COUNTY ROAD 255), 18.00 METERS NORTH OF THE CENTER OF A PAVED DRIVE, 10.80 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720023 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 489.329 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	34	14.75	48.4
MK # 2	TELEPHONE JUNCTION BOX	194	28.55	93.7
MK # 3	NORTH END CORRIGATED METAL PIPE	220	11.75	38.5

AZ Mark Station	720023A
Geodetic Azimuth	210 38 53
Grid Azimuth	211 58 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720024	9/18/2001	AHTD	WASHINGTON	62	R40082

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	191,448.4669
Easting (M)	196,660.1860
Elevation (M)*	375.483
Northing (SFT)	628,110.5118
Easting (SFT)	645,209.2936
Elevation (SFT)*	1,231.897

Convergence Angle	-1	18	47.1734639
Scale Factor			0.999967215
Elevation Adjust. Factor			0.9999410779
Combined Adjust. Factor			0.9999082949

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	16.6833564
Longitude	94	15	23.6991708
Ellipsoid Height (M):	347.468		
Geoid Height (M):	-28.015		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 1.529 KM (0.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.45 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 62 AND 1.88 METERS NOIRTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720024 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 402.418 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	720024A
Geodetic Azimuth	60 32 31
Grid Azimuth	61 51 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720024A	9/18/2001	AHTD	WASHINGTON	62	R40082

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	191,638.2729	
Easting (M)	197,014.9890	
Elevation (M)*	368.871	
Northing (SFT)	628,733.2337	
Easting (SFT)	646,373.3431	
Elevation (SFT)*	1,210.204	

Convergence Angle	-1	18	39.0289414
Scale Factor			0.999967461
Elevation Adjust. Factor			0.9999421155
Combined Adjust. Factor			0.9999095783

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	23.1036216
Longitude	94	15	9.7027200
Ellipsoid Height (M):	340.860		
Geoid Height (M):	-28.011		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 170 WEST AND U.S. HIGHWAY 62 LOCATED IN FARMINGTON, GO SOUTHWEST ON U.S. HIGHWAY 62 FOR 1.127 KM (0.70 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.25 METERS EAST OF THE CENTER OF THE ENTRANCE TO MARVIN'S IGA, 10.40 METERS SOUTHEAST OF U.S. HIGHWAY 62, 10.00 METERS WEST OF THE CENTER OF SARATOGA STREET, AND 0.77 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720024A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 402.418 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAN HOLE COVER	68	19.75	64.8
MK # 2	COMBINATION POLE	57	22.25	73.0
MK # 3				

AZ Mark Station	720024
Geodetic Azimuth	240 32 39
Grid Azimuth	241 51 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720025	10/9/2001	AHTD	WASHINGTON	540	040346, 012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	202,487.8430	
Easting (M)	203,549.6190	
Elevation (M)*	373.234	
Northing (SFT)	664,328.8649	
Easting (SFT)	667,812.3750	
Elevation (SFT)*	1,224.517	

Convergence Angle	-1	16	12.7522379
Scale Factor	0.999982688		
Elevation Adjust. Factor	0.9999414309		
Combined Adjust. Factor	0.9999241199		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	19.8009204
Longitude	94	10	58.3246092
Ellipsoid Height (M):	345.257		
Geoid Height (M):	-27.989		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112 AND INTERSTATE 540, LOCATED ON THE WEST SIDE OF FAYETTEVILLE, GO NORTH ON I 540 FOR 4.699 KM (2.92 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.27 METERS SOUTHWEST OF THE CORNER OF THE NORTH BOUND BRIDGE, 6.50 METERS SOUTHEAST OF THE CORNER OF THE SOUTH BOUND BRIDGE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720025 2001" SET ON TOP OF AN IRON ROD 0.70 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.436 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER OF NORTH BOUND B RIDGE	116	10.27	33.7
MK # 2	NORTHEAST CORNER OF SOUTH BOUND B RIDGE	255	6.50	21.3
MK # 3	PUNCH IN METAL GUARD RAIL POST	302	10.30	33.8

AZ Mark Station	720025A
Geodetic Azimuth	171 44 41
Grid Azimuth	173 00 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	91040001
Ref Mon # 3	E E S

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720025A	10/9/2001	AHTD	WASHINGTON	540	040346, 012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	201,980.2340	
Easting (M)	203,611.8110	
Elevation (M)*	365.364	
Northing (SFT)	662,663.4844	
Easting (SFT)	668,016.4166	
Elevation (SFT)*	1,198.697	

Convergence Angle	-1	16	11.0432742
Scale Factor	0.999981921		
Elevation Adjust. Factor	0.9999426658		
Combined Adjust. Factor	0.9999245878		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	3.3806940
Longitude	94	10	55.3877364
Ellipsoid Height (M):	337.404		
Geoid Height (M):	-27.987		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112 AND INTERSTATE 540, LOCATED ON THE WEST SIDE OF FAYETTEVILLE, GO NORTH ON I 540 FOR 4.184 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 7.0 METERS SOUTHWEST OF THE CORNER OF THE NORTH BOUND BRIDGE, 9.15 METERS SOUTHWEST OF AN A.H.T.D. BENCHMARK CAP IN WING WALL OF SOUTH BOUND BRIDGE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720025A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 511.436 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH IN METAL GUARD RAIL POST	72	6.55	21.5
MK # 2	PUNCH IN METAL GUARD RAIL POST	95	6.96	22.8
MK # 3	PUNCH IN METAL GUARD RAIL POST	124	9.65	31.7

AZ Mark Station	720025
Geodetic Azimuth	351 44 43
Grid Azimuth	353 00 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	91040001
Ref Mon # 3	E E S

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720026	10/25/2001	AHTD	WASHINGTON	265	004981

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	174,113.9779	
Easting (M)	191,836.5700	
Elevation (M)*		
Northing (SFT)	571,238.9425	
Easting (SFT)	629,383.8134	
Elevation (SFT)*		

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	52	50.7737820	
Longitude	94	18	20.1261132	
Ellipsoid Height (M):	384.970			
Geoid Height (M):	-28.108			

Convergence Angle	-1	20	29.8361479	
Scale Factor	0.999949287			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 156 LOCATED IN HOGEYE, GO SOUTH ON STATE HIGHWAY 265 FOR 5.826 KM (3.62 MI) TO THE STATION ON THE LEFT. THE STATION IS 20.00 METERS SOUTH OF THE CENTER OF A GRAVEL FIELD ENTRANCE, 10.40 METERS EAST OF THE CENTER OF STATE HIGHWAY 265, AND 0.90 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720026 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 358.665 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	269	20.40	66.9
MK # 2	CORRIGATED METAL PIPE	18	16.55	54.3
MK # 3	TELEPHONE JUNCTION BOX	51	4.30	14.1

AZ Mark Station	720026A
Geodetic Azimuth	201 21 56
Grid Azimuth	202 42 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	720022
Ref Mon # 3	ENES

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720026A	10/25/2001	AHTD	WASHINGTON	265	004981

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	173,783.1519
Easting (M)	191,698.1340
Elevation (M)*	
Northing (SFT)	570,153.5575
Easting (SFT)	628,929.6280
Elevation (SFT)*	

Convergence Angle	-1	20	32.8671673
Scale Factor	0.999949017		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	52	39.9373068
Longitude	94	18	25.3349532
Ellipsoid Height (M):	392.844		
Geoid Height (M):	-28.113		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 156 LOCATED IN HOGEYE, GO SOUTH ON STATE HIGHWAY 265 FOR 6.196 KM (3.85 MI) TO THE STATION ON THE LEFT. THE STATION IS 6.30 METERS EAST OF THE CENTER OF STATE HIGHWAY 265 AND 0.58 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720026A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 358.665 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	21	14.00	45.9
MK # 2	WOODEN CORNER POST	193	13.15	43.1
MK # 3	WATER METER	150	6.70	22.0

AZ Mark Station	720026
Geodetic Azimuth	21 21 53
Grid Azimuth	22 42 26

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	720022
Ref Mon # 3	ENES

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720027	10/31/2001	AHTD	WASHINGTON	71	4938

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	175,789.8429	
Easting (M)	203,486.7740	
Elevation (M)*	431.570	
Northing (SFT)	576,737.1762	
Easting (SFT)	667,606.1910	
Elevation (SFT)*	1,415.909	

Convergence Angle	-1	16	0.4767809
Scale Factor			0.999950909
Elevation Adjust. Factor			0.9999322772
Combined Adjust. Factor			0.9998831895

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	53.7396936
Longitude	94	10	37.2291024
Ellipsoid Height (M):	403.583		
Geoid Height (M):	-27.987		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 15.112 KM (9.39 MI) TO THE STATION ON THE LEFT. THE STATION IS 32.10 METERS SOUTH OF A PAVED DRIVE, 15.50 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720027 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.799 METERS.ELEVATION ON THIS STATION WAS ARRIVED AT BY CREW S5101 USING BM X 310 PID=FH1254.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	720027A
Geodetic Azimuth	358 23 30
Grid Azimuth	359 39 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	440015
Ref Mon # 2	GAYLOR
Ref Mon # 3	ENES

Comments

ELEV BY 3 WIRE BY S5103 FROM X 310

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720027A	10/31/2001	AHTD	WASHINGTON	71	4938

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	176,425.5650	
Easting (M)	203,482.9860	
Elevation (M)*	417.766	
Northing (SFT)	578,822.8745	
Easting (SFT)	667,593.7632	
Elevation (SFT)*	1,370.621	

Convergence Angle	-1	16	0.8908254
Scale Factor			0.999951461
Elevation Adjust. Factor			0.9999344432
Combined Adjust. Factor			0.9998859073

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	54	14.3589132
Longitude	94	10	37.9406424
Ellipsoid Height (M):	389.789		
Geoid Height (M):	-27.983		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 15.739 KM (9.78 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.10 METERS EAST OF THE CENTER OF HIGHWAY 71 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720027A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 635.799 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	13	12.00	39.4
MK # 2				
MK # 3				

AZ Mark Station	720027
Geodetic Azimuth	178 23 30
Grid Azimuth	179 39 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	440015
Ref Mon # 2	GAYLOR
Ref Mon # 3	ENES

Comments

ELEV BY 3 WIRE BY S5103 FROM X 310

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720028 RESET	5/13/2003	AHTD	WASHINGTON	71	4938

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	171,675.5299	
Easting (M)	209,403.4970	
Elevation (M)*	449.291	
Northing (SFT)	563,238.8010	
Easting (SFT)	687,017.9731	
Elevation (SFT)*	1,474.049	

Convergence Angle	-1	13	41.1640253
Scale Factor			0.999947678
Elevation Adjust. Factor			0.9999294966
Combined Adjust. Factor			0.9998771783

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	51	44.4548412
Longitude	94	6	37.8186120
Ellipsoid Height (M):	421.326		
Geoid Height (M):	-27.971		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON HIGHWAY 71 FOR 4.51 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.00 METERS SOUTH OF THE CENTER OF HIGHWAY 71 AND 1.18 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720028 RESET 2003" ON TOP OF A 0.61 IRON ROD DRIVEN FLUSH WITH THE GROUND.ELEVATION FROM B313 BY S5103

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	131	7.60	24.9
MK # 2	IN-LINE BRACE POST (WOOD)	299	19.90	65.3
MK # 3				

AZ Mark Station	720028A
Geodetic Azimuth	309 41 04
Grid Azimuth	310 54 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR1
Ref Mon # 2	720029
Ref Mon # 3	720027

Comments

ELEV BY 3 WIRE FROM BGS B 313 BY S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720028A	10/31/2001	AHTD	WASHINGTON	71	4938

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	172,140.7360	
Easting (M)	208,866.6880	
Elevation (M)*	444.929	
Northing (SFT)	564,765.0647	
Easting (SFT)	685,256.7922	
Elevation (SFT)*	1,459.738	

Convergence Angle	-1	13	53.8441922
Scale Factor			0.999948026
Elevation Adjust. Factor			0.9999301810
Combined Adjust. Factor			0.9998782106

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	51	59.1719868	
Longitude	94	6	59.6096172	
Ellipsoid Height (M):	416.963			
Geoid Height (M):	-27.970			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 7.982 KM (4.95 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.80 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 71 AND 1.00 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720028A 2001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 710.522 METERS.ELEVATION FROM B313 BY S5103

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	308	21.30	69.9
MK # 2	WOODEN FENCE POST	116	13.80	45.3
MK # 3				

AZ Mark Station	720028 RESET
Geodetic Azimuth	129 40 52
Grid Azimuth	130 54 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	440015 & AHTD HAR1
Ref Mon # 2	GAYLOR & 720029
Ref Mon # 3	ENES & 720027

Comments

ELEV BY 3 WIRE FROM BGS B 313 BY S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720029	10/31/2001	AHTD	WASHINGTON	71	4938

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,459.2820	
Easting (M)	207,504.6540	
Elevation (M)*	494.845	
Northing (SFT)	546,125.1610	
Easting (SFT)	680,788.1857	
Elevation (SFT)*	1,623.505	

Convergence Angle	-1	14	22.5793586
Scale Factor	0.999944017		
Elevation Adjust. Factor	0.9999223487		
Combined Adjust. Factor	0.9998663700		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	53.9155368
Longitude	94	7	48.9913140
Ellipsoid Height (M):	466.793		
Geoid Height (M):	-28.060		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 0.901 KM (0.56 MI) TO THE STATION ON THE RIGHT. THE STATION IS 13.60 METERS EAST OF THE CENTER OF U.S. HIGHWAY 71, AND 5.90 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720029 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 457.550 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	162	30.00	98.4
MK # 2				
MK # 3				

AZ Mark Station	720029A
Geodetic Azimuth	185 55 40
Grid Azimuth	187 10 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	440015
Ref Mon # 2	GAYLOR
Ref Mon # 3	ENES

Comments

ELEV BY 3 WIRE FROM X 312 BY S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720029A	10/31/2001	AHTD	WASHINGTON	71	4938

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	166,005.3639	
Easting (M)	207,447.5720	
Elevation (M)*	504.905	
Northing (SFT)	544,635.9314	
Easting (SFT)	680,600.9091	
Elevation (SFT)*	1,656.510	

Convergence Angle	-1	14	23.6745749
Scale Factor	0.999943732		
Elevation Adjust. Factor	0.9999207702		
Combined Adjust. Factor	0.9998645066		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	39.1505184
Longitude	94	7	50.8734552
Ellipsoid Height (M):	476.835		
Geoid Height (M):	-28.069		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 WEST LOCATED IN WINSLOW, GO NORTH ON U.S. HIGHWAY 71 FOR 0.451 KM (0.28 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.80 METERS WEST OF THE CENTER OF U.S. HIGHWAY 71, 8.10 METERS NORTH OF THE CENTER OF A CONCRETE DRIVE, AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720029A 2001" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 457.550 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER POST	205	13.80	45.3
MK # 2				
MK # 3				

AZ Mark Station	720029
Geodetic Azimuth	5 55 39
Grid Azimuth	7 10 03

Area Reference Monuments (used for Processing)

Ref Mon # 1	440015
Ref Mon # 2	GAYLOR
Ref Mon # 3	ENES

Comments

ELEV BY 3 WIRE FROM X 312 BY S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720030	10/7/2002	AHTD	WASHINGTON	N/A	040397, 040411

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	182,900.0029	
Easting (M)	190,896.6620	
Elevation (M)*	354.352	
Northing (SFT)	600,064.4262	
Easting (SFT)	626,300.1319	
Elevation (SFT)*	1,162.570	

Convergence Angle	-1	20	56.4347880
Scale Factor	0.999957351		
Elevation Adjust. Factor	0.9999443937		
Combined Adjust. Factor	0.9999017471		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	57	35.0538048
Longitude	94	19	5.8361664
Ellipsoid Height (M):	326.376		
Geoid Height (M):	-28.084		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN PRAIRIE GROVE, GO EAST ON U.S. HIGHWAY 62 FOR 0.15 MILES TO THE STOP LIGHT AT THE JUNCTION ON U.S. HIGHWAY 62 (BUCHANAN STREET) & MOCK STREET. TURN RIGHT (SOUTH) ON MOCK STREET AND GO SOUTH FOR 1.10 MILE TO THE STATION ON THE LEFT. THE STATION IS 8.30 METERS EAST OF THE CENTER OF MOCK STREET, 5.40 METERS SOUTH OF A FIELD ENTRANCE, AND 0.44 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720030 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	279	16.00	52.5
MK # 2	SOUTH GATE POST	16	1.65	5.4
MK # 3	4" WOOD FENCE POST	87	0.50	1.6

AZ Mark Station	720030A
Geodetic Azimuth	182 31 55
Grid Azimuth	183 52 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

Comments

3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720030A	10/7/2002	AHTD	WASHINGTON	N/A	040397, 040411

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	182,332.6249
Easting (M)	190,858.1730
Elevation (M)*	349.113
Northing (SFT)	598,202.9535
Easting (SFT)	626,173.8559
Elevation (SFT)*	1,145.382

Convergence Angle	-1	20	57.0181288
Scale Factor			0.999956771
Elevation Adjust. Factor			0.9999452158
Combined Adjust. Factor			0.9999019892

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	57	16.6203360
Longitude	94	19	6.8386440
Ellipsoid Height (M):	321.129		
Geoid Height (M):	-28.085		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN PRAIRIE GROVE, GO EAST ON U.S. HIGHWAY 62 FOR 0.15 MILES TO THE STOP LIGHT AT THE JUNCTION OF U.S. HIGHWAY 62 (BUCHANAN STREET) AND MOCK STREET. TURN RIGHT (SOUTH) ON MOCK STREET AND GO SOUTH FOR 1.45 MILES ON MOCK STREET TO THE STATION ON THE RIGHT. THE STATION IS 7.95 METERS WEST OF THE CENTER OF MOCK STREET, 0.65 METERS EAST OF A BARB WIRE FENCE LINE, AND 0.55 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720030A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHERN MOST 4" IN LINE BRACE POST	194	2.40	7.9
MK # 2	NORTHERN MOST 4" IN LINE BRACE POST	265	0.75	2.5
MK # 3				

AZ Mark Station	720030
Geodetic Azimuth	2 31 54
Grid Azimuth	3 52 51

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

Comments

3-Wire Levels were ran from NGS BM H27 to D50 via Job R40082,040397, & 040411 by S5103, NTB, & S5101. Data compiled in 040411 in May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720031	10/7/2002	AHTD	WASHINGTON	62	040397

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	183,167.4609	
Easting (M)	178,791.3180	
Elevation (M)*	422.166	
Northing (SFT)	600,941.9113	
Easting (SFT)	586,584.5158	
Elevation (SFT)*	1,385.056	

Convergence Angle	-1	25	37.6235709
Scale Factor	0.999957325		
Elevation Adjust. Factor	0.9999337528		
Combined Adjust. Factor	0.9998910806		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	57	34.2147744
Longitude	94	27	9.0621576
Ellipsoid Height (M):	393.921		
Geoid Height (M):	-28.245		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN LINCOLN, GO WEST ON U.S. HIGHWAY 62 FOR 1.85 MILES TO THE STATION ON THE LEFT. THE STATION IS 14.29 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 62, 12.80 METERS WEST OF THE CENTER OF A DRIVEWAY, AND 0.87 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720031 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH D 50, PID # FHOO57, RAN BY CREW S5101.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	REINFORCED CONCRETE PIPE	52	11.31	37.1
MK # 2	POWER POLE	96	8.37	27.5
MK # 3	GAS METER	144	15.20	49.9

AZ Mark Station	720031A
Geodetic Azimuth	274 58 50
Grid Azimuth	276 24 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720031A	10/7/2002	AHTD	WASHINGTON	62	040397

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	183,223.1400	
Easting (M)	178,295.5360	
Elevation (M)*	418.945	
Northing (SFT)	601,124.5852	
Easting (SFT)	584,957.9377	
Elevation (SFT)*	1,374.489	

Convergence Angle	-1	25	49.1657219
Scale Factor	0.999957369		
Elevation Adjust. Factor	0.9999342582		
Combined Adjust. Factor	0.9998916300		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	57	35.6196960
Longitude	94	27	28.8974700
Ellipsoid Height (M):	390.692		
Geoid Height (M):	-28.253		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN LINCOLN, GO WEST ON U.S. HIGHWAY 62 FOR 2.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 10.90 MILES NORTH OF THE CENTER OF U.S. HIGHWAY 62, 0.88 METERS SOUTH OF A BARB WIRE FENCE LINE, AND 0.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720031A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH D 50, PID # FH0057, RAN BY CREW S5101.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	720031
Geodetic Azimuth	94 58 39
Grid Azimuth	96 24 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ENES
Ref Mon # 3	OKMU

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720032	10/23/2002	AHTD	WASHINGTON	112	)40399,012069,040418,01211

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,026.8170	
Easting (M)	203,552.9720	
Elevation (M)*	383.814	
Northing (SFT)	633,288.8154	
Easting (SFT)	667,823.3756	
Elevation (SFT)*	1,259.231	

Convergence Angle	-1	16	7.7981038
Scale Factor	0.999969408		
Elevation Adjust. Factor	0.9999397706		
Combined Adjust. Factor	0.9999091805		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	12.9187404
Longitude	94	10	49.8108756
Ellipsoid Height (M):	355.842		
Geoid Height (M):	-27.964		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 112 ON THE SOUTH SIDE OF FAYETTEVILLE, GO NORTH ON STATE HIGHWAY 112 FOR 0.33 MILES TO THE STATION ON THE RIGHT. THE STATION IS 19.45 METERS EAST OF THE CENTER OF STATE HIGHWAY 112, 8.18 METERS EAST OF THE NEAR RAIL, AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720032 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH Q 310 PID # GG0901 RAN BY CREW S5101.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	3	24.85	81.5
MK # 2	FLAG POLE	80	17.20	56.4
MK # 3				

AZ Mark Station	720032A
Geodetic Azimuth	185 28 56
Grid Azimuth	186 45 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	ENES
Ref Mon # 3	V 26

Comments

3-wire levels ran by crew S5101 in October 07 from NGS marks Q 310, J 27, K 310, & A 27.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720033	10/23/2002	AHTD	WASHINGTON	112	_5, 004822, 040489,040418,04

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	197,060.9671	0.0020
Easting (M)	204,131.2277	0.0020
Elevation (M)*	388.933	

Northing (SFT)	646,524.1896	
Easting (SFT)	669,720.5362	
Elevation (SFT)*	1,276.026	

Convergence Angle	-1	15	56.4286176
Scale Factor			0.999974817
Elevation Adjust. Factor			0.9999389674
Combined Adjust. Factor			0.9999137859

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	5	24.1893312
Longitude	94	10	30.2731572
Ellipsoid Height:			360.972
Grid Northing (Meters)			197,060.9660
Grid Easting (Meters)			204,131.2060

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	36	5	24.1893852
Longitude	94	10	30.2722896
Ellipsoid Height (M):	360.868		0.0030
Geoid Height (M):	-28.078		0.0030

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 540 ANDSTATE HIGHWAY 112, ON THE NORTH EDGE OF FAYETTEVILLE, GO SOUTH ON STATE HIGHWAY 112 FOR 1.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS WEST OF THE CENTER OF STATE HIGHWAY 112, 0.70 METERS EAST OF A WHITE PLANK FENCE LINE AND 0.40 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "720033 2002" SET ON TOP OF AN IRON ROD 0.62 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVELS FROM NGS BENCH L 310 PID #GG0905 RAN BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAN HOLE COVER	72	8.00	26.2
MK # 2				
MK # 3				

AZ Mark Station	AGRONOMY
Geodetic Azimuth	3 16 04
Grid Azimuth	4 32 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	ENES
Ref Mon # 3	V 26

Comments

3-Wire Levels ran from NGS Marks C 27, K 310, & A 27 on 2-23-07 by crew S5101 on JOB 040489.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720034	9/9/2003	AHTD	WASHINGTON	16	040423,012069,012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	195,815.9129	
Easting (M)	201,761.3360	
Elevation (M)*	388.900	
Northing (SFT)	642,439.3742	
Easting (SFT)	661,945.3165	
Elevation (SFT)*	1,275.915	

Convergence Angle	-1	16	50.8930018
Scale Factor			0.999973038
Elevation Adjust. Factor			0.9999389727
Combined Adjust. Factor			0.9999120123

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	42.0952764
Longitude	94	12	3.8699280
Ellipsoid Height (M):	360.887		
Geoid Height (M):	-27.980		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, THE STATION MARK IS AT THE NORTHWEST CORNER OF THE OVERPASS BRIDGE, NORTH 8.80 METERS OF THE CENTERLINE OF HIGHWAY 16 AND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720034 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	125	2.80	9.2
MK # 2	4th GUARD RAIL POST GOING WEST FROM NW COR	246	2.50	8.2
MK # 3				

AZ Mark Station	720034A
Geodetic Azimuth	193 16 45
Grid Azimuth	194 33 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ENES, OKMU
Ref Mon # 2	SAL1
Ref Mon # 3	AGRONOMY

Comments

3-wire levels ran by crew S5101 in October 07 from NGS 1st order marks Q 310, K 310, J 27, & A 27.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720034A	9/9/2003	AHTD	WASHINGTON	540	040423,012069,012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	195,107.7030	
Easting (M)	201,577.3910	
Elevation (M)*	390.372	
Northing (SFT)	640,115.8556	
Easting (SFT)	661,341.8236	
Elevation (SFT)*	1,280.745	

Convergence Angle	-1	16	54.8015275
Scale Factor	0.999972080		
Elevation Adjust. Factor	0.9999387417		
Combined Adjust. Factor	0.9999108234		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	18.9897636
Longitude	94	12	10.5867720
Ellipsoid Height (M):	362.348		
Geoid Height (M):	-27.980		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, GO SOUTH ON I-540 0.45 MILES TO THE STATION IN THE MEDIAN, WEST 12.10 METERS OF THE NORTH BOUND LANE, EAST 7.50 METERS OF THE SOUTH BOUND LANE, AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720034A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	720034
Geodetic Azimuth	13 16 41
Grid Azimuth	14 33 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ENES, OKMU
Ref Mon # 2	SAL1
Ref Mon # 3	AGRONOMY

Comments

3-wire levels ran by crew S5101 in October 07 from NGS 1st order marks Q 310, K 310, J 27, & A 27.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720035	9/9/2003	AHTD	WASHINGTON	16	040423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	196,009.7239
Easting (M)	197,277.6460
Elevation (M)*	
Northing (SFT)	643,075.2358
Easting (SFT)	647,235.0769
Elevation (SFT)*	
Convergence Angle	-1 18 35.2476101
Scale Factor	0.999973163
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 4 45.0933888
Longitude	94 15 3.2044608
Ellipsoid Height (M):	348.641
Geoid Height (M):	-28.017

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 2.65 MILES TO THE STATION ON THE LEFT, 4.30 METERS EAST OF A DRIVEWAY, SOUTH 7.90 METERS OF THE CENTERLINE AND NORTH 2.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720035 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	167	4.90	16.1
MK # 2	COMBINATION POLE	265	1.75	5.7
MK # 3	MAIL BOX#6255	5	2.90	9.5

AZ Mark Station	720035A
Geodetic Azimuth	89 34 32
Grid Azimuth	90 53 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ENES, OKMU
Ref Mon # 2	SAL1
Ref Mon # 3	AGRONOMY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720035A	9/9/2003	AHTD	WASHINGTON	16	040423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	195,998.1990
Easting (M)	198,023.3890
Elevation (M)*	
Northing (SFT)	643,037.4246
Easting (SFT)	649,681.7354
Elevation (SFT)*	

Convergence Angle	-1	18	17.9018057
Scale Factor	0.999973171		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	4	45.2716104
Longitude	94	14	33.3955068
Ellipsoid Height (M):	341.279		
Geoid Height (M):	-28.010		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 112/I-540/16 OVER PASS, WEST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 2.2 MILES TO THE STATION ON THE RIGHT, WEST 21.30 METERS OF A DRIVEWAY, NORTH 9.30 METERS OF THE CENTERLINE, AND SOUTH 3.70 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720035A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	40	5.50	18.0
MK # 2	MAIL BOX#5624	101	19.00	62.3
MK # 3				

AZ Mark Station	720035
Geodetic Azimuth	269 34 49
Grid Azimuth	270 53 07

Area Reference Monuments (used for Processing)

Ref Mon # 1	ENES, OKMU
Ref Mon # 2	SAL1
Ref Mon # 3	AGRONOMY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720036	9/7/2004	AHTD	WASHINGTON	412	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,325.8730	
Easting (M)	193,542.8000	
Elevation (M)*	392.672	
Northing (SFT)	680,201.6350	
Easting (SFT)	634,981.6697	
Elevation (SFT)*	1,288.290	

Convergence Angle	-1	20	8.2221595
Scale Factor			0.999989963
Elevation Adjust. Factor			0.9999383808
Combined Adjust. Factor			0.9999283444

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	49.3431852
Longitude	94	17	42.9822384
Ellipsoid Height (M):	364.646		
Geoid Height (M):	-28.055		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 ìAND STATE HIGHWAY 112, NORTH OF FAYETTEVILLE, GO WEST ON 412 iFOR 4.1 MILES TO COUNTY ROAD 58, (OLD HIGHWAY 68), AND TURN iRIGHT ON CO. ROAD 58 AND GO 0.25 MILES TO THE STATION MARK ON THEì LEFT, SOUTHEAST 38 METERS OF A GRAVEL DRIVE, SOUTHWEST 12.0 iMETERS OF THE CENTERLINE OF THE HIGHWAY AND NORTHEAST OF A ìWITNESS POST 0.50 METERS. THE STATION MARK IS A STANDARD 64mm ìCAP STAMPED "720036 2004" ON TOP OF 1.0 METER IRON ROD DRIVEN iFLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER VALVE	280	235.00	771.0
MK # 2	FENCE CORNER	224	0.60	2.0
MK # 3				

AZ Mark Station	720036
Geodetic Azimuth	133 40 49
Grid Azimuth	135 00 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720036A	9/7/2004	AHTD	WASHINGTON	412	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,026.7339	
Easting (M)	193,841.7730	
Elevation (M)*	384.924	
Northing (SFT)	679,220.2095	
Easting (SFT)	635,962.5503	
Elevation (SFT)*	1,262.872	

Convergence Angle	-1	20	1.0997058
Scale Factor			0.999989486
Elevation Adjust. Factor			0.9999395965
Combined Adjust. Factor			0.9999290831

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	39.8665416
Longitude	94	17	30.7422240
Ellipsoid Height (M):	356.894		
Geoid Height (M):	-28.053		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 ìAND STATE HIGHWAY 112, NORTH OF FAYETTEVILLE, GO WEST ON 412 iFOR 4.1 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST 27.6 iMETERS OF AN ASPHALT DRIVE, NORTH 23.7 METERS OF THE CENTERLINE iOF THE HIGHWAY AND SOUTH 0.50 METERS OF A WITNESS POST. THE iSTATION MARK IS A STANDARD 64mm CAP STAMPED "720036A 2004" ON TOPì OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE RISER	341	18.60	61.0
MK # 2	FENCE CORNER	333	23.40	76.8
MK # 3	FIRE HYDRANDT	331	26.70	87.6

AZ Mark Station	720036
Geodetic Azimuth	313 40 56
Grid Azimuth	315 00 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720037	9/8/2004	AHTD	WASHINGTON	412	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	210,450.9160	
Easting (M)	191,936.2140	
Elevation (M)*	320.986	
Northing (SFT)	690,454.3802	
Easting (SFT)	629,710.7288	
Elevation (SFT)*	1,053.101	

Convergence Angle	-1	20	47.3345883
Scale Factor	0.999995130		
Elevation Adjust. Factor	0.9999496294		
Combined Adjust. Factor	0.9999447596		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	29.4832008
Longitude	94	18	50.1973740
Ellipsoid Height (M):	292.945		
Geoid Height (M):	-28.064		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 ìAND STATE HIGHWAY 112, WEST OF SPRINGDALE, GO WEST ON 412 FOR ì4.1 MILES TO COUNTY ROAD 58 (OLD HIGHWAY 68) AND TURN RIGHT AND ìGO 2.4 MILES TO COUNTY ROAD 88 AND TURN RIGHT AND GO 1.1 MILES TOì COUNTY ROAD 224 AND TURN RIGHT AND GO 2.5 MILES TO A ROAD ìINTERSECTION (NORTH GAICHE AND OSAGE HOG FARM ROAD) AND CONTINUE ìON EAST 1.4 MILES TO ROCKY COMFORT ROAD AND TURN RIGHT AND GO 0.7ì MILES TO THE STATION ON THE RIGHT, NORTH 2.5 METERS OF THE ìCENTER OF THE GRAVEL DRIVE AND EAST 29.0 METERS OF A WITNESS ìPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720037 ì2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE ìGROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH 2 GUYS	277	29.00	95.1
MK # 2				
MK # 3				

AZ Mark Station	720037A
Geodetic Azimuth	359 47 02
Grid Azimuth	1 07 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720037A	9/8/2004	AHTD	WASHINGTON	412	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	211,317.7539
Easting (M)	191,953.3170
Elevation (M)*	325.735
Northing (SFT)	693,298.3309
Easting (SFT)	629,766.8409
Elevation (SFT)*	1,068.682
Convergence Angle	-1 20 47.4107943
Scale Factor	0.999996624
Elevation Adjust. Factor	0.9999488842
Combined Adjust. Factor	0.9999455084

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 12 57.6116424
Longitude	94 18 50.3283348
Ellipsoid Height (M):	297.681
Geoid Height (M):	-28.062

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 ìAND STATE HIGHWAY 112, WEST OF SPRINGDALE, GO WEST ON 412 FOR ì4.1 MILES TO COUNTY ROAD 58 (OLD HIGHWAY 68) AND TURN RIGHT AND ìGO 2.4 MILES TO COUNTY ROAD 88 AND TURN RIGHT AND GO 1.1 MILES TOì COUNTY ROAD 224 AND TURN RIGHT AND GO 2.5 MILES TO A ROAD ìINTERSECTION (NORTH GAICHE AND OSAGE HOG FARM ROAD) AND CONTINUE ìON EAST 1.25 MILES THE STATION ON THE LEFT, NORTH 3.45 METERS ìOF THE CENTER OF THE GRAVEL ROAD AND SOUTH 0.50 METERS OF A ìWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED ì"720037A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN 0.10 METERSì SUBSURFACE WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	255	34.90	114.5
MK # 2				
MK # 3				

AZ Mark Station	720037
Geodetic Azimuth	179 47 02
Grid Azimuth	181 07 49

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720038	9/9/2004	AHTD	WASHINGTON	412	001966,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,209.2080	
Easting (M)	214,576.6640	
Elevation (M)*	397.878	
Northing (SFT)	679,818.8766	
Easting (SFT)	703,990.2718	
Elevation (SFT)*	1,305.370	

Convergence Angle	-1	11	58.4547585
Scale Factor			0.999990535
Elevation Adjust. Factor			0.9999375639
Combined Adjust. Factor			0.9999280995

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	11	0.6554292
Longitude	94	3	41.3116164
Ellipsoid Height (M):	369.957		
Geoid Height (M):	-27.961		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 iAND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY i264 FOR 2.5 MILES TO NORTH MOUNTIAN DRIVE AND TURN RIGHT AND GO i0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER iROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN iLEFT AND GO 2.7 MILES TO THE STATION ON THE LEFT, NORTH 7.4 iMETERS OF THE CENTERLINE AND SOUTH 0.50 METERS OF A WITNESS iPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720038 i2004" ON TOP OF A 0.61 METER IRON ROD DRIVEN FLUSH WITH THE iGROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	720038A
Geodetic Azimuth	92 22 29
Grid Azimuth	93 34 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720038A	9/9/2004	AHTD	WASHINGTON	412	001966,012366

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	207,149.0010
Easting (M)	215,540.5130
Elevation (M)*	371.217
Northing (SFT)	679,621.3474
Easting (SFT)	707,152.4997
Elevation (SFT)*	1,217.900

Convergence Angle	-1	11	35.9843066
Scale Factor			0.999990469
Elevation Adjust. Factor			0.9999417474
Combined Adjust. Factor			0.9999322170

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	59.3554656
Longitude	94	3	2.6958996
Ellipsoid Height (M):	343.280		
Geoid Height (M):	-27.960		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 iAND STATE HIGHWAY 71B, NORTH OF SPRINGDALE, GO EAST ON HIGHWAY i264 FOR 2.5 MILES TO NORTH MOUNTIAN DRIVE AND TURN RIGHT AND GO i0.2 MILES TO REED ROAD AND TURN LEFT AND GO 1.2 MILES TO LUPER iROAD AND TURN RIGHT AND GO 0.2 MILES TO MONITOR ROAD AND TURN iLEFT AND GO 3.40 MILES TO THE STATION ON THE RIGHT, SOUTHEAST i14.0 METERS OF THE CENTERLINE AND NORTHWEST 0.50 METERS OF A iWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED i"720038A 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH iTHE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	720038
Geodetic Azimuth	272 22 52
Grid Azimuth	273 34 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720039A	9/9/2004	AHTD	WASHINGTON	412	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,413.2840	
Easting (M)	216,899.5340	
Elevation (M)*	406.919	
Northing (SFT)	673,926.7493	
Easting (SFT)	711,611.2211	
Elevation (SFT)*	1,335.033	

Convergence Angle	-1	11	3.5068755
Scale Factor			0.999987700
Elevation Adjust. Factor			0.9999361452
Combined Adjust. Factor			0.9999238460

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	3.9690840
Longitude	94	2	6.8830800
Ellipsoid Height (M):	379.009		
Geoid Height (M):	-27.953		

Location Description

TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 iAND STATE HIGHWAY 265, EAST OF SPRINGDALE, GO EAST ON 412 5.0 iMILES TO THE STATION MARK ON THE LEFT, NORTHWEST 22.1 METERS OF iTHE CENTERLINE OF HIGHWAY 412, AND SOUTHEAST 1.3 METERS OF A iWITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED i"720039A 2004" ON TOP 0F A 0.80 METER IRON ROD DRIVEN FLUSH WITH iTHE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	260	17.90	58.7
MK # 2				
MK # 3				

AZ Mark Station	720039
Geodetic Azimuth	74 11 57
Grid Azimuth	75 23 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	SAL1

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 by B&F Engr in Job 001966 - Springdale By-pass 11/2004.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720040	10/6/2004	AHTD	WASHINGTON	412	040440, 040520

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,459.9450	
Easting (M)	209,527.7690	
Elevation (M)*	411.407	
Northing (SFT)	674,079.8362	
Easting (SFT)	687,425.6888	
Elevation (SFT)*	1,349.758	

Convergence Angle	-1	13	55.1304074
Scale Factor	0.999987526		
Elevation Adjust. Factor	0.9999354410		
Combined Adjust. Factor	0.9999229678		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	0.4398492
Longitude	94	7	1.8199920
Ellipsoid Height (M):	383.433		
Geoid Height (M):	-27.964		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 412, EAST OF SPRINGDALE, GO EAST ON HIGHWAY 412 0.10 MILES TO THE STATION MARK ON THE RIGHT, EAST OF A CONCRETE DRIVE 8.20 METERS, SOUTH 11.60 METERS OF THE CENTERLINE OF THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720040 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE		7.00	23.0
MK # 2	TELEPHONE RISER		24.40	80.1
MK # 3	TELEPHONE RISER		15.40	50.5

AZ Mark Station	720040A
Geodetic Azimuth	88 34 22
Grid Azimuth	89 48 17

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	A 309
Ref Mon # 3	ENES

Comments

3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720041	10/6/2004	AHTD	WASHINGTON	265	040440

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	201,318.4589	
Easting (M)	209,391.5680	
Elevation (M)*	389.892	
Northing (SFT)	660,492.3106	
Easting (SFT)	686,978.8360	
Elevation (SFT)*	1,279.169	

Convergence Angle	-1	13	56.2271278
Scale Factor	0.999981117		
Elevation Adjust. Factor	0.9999388171		
Combined Adjust. Factor	0.9999199352		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	46.0090164
Longitude	94	7	3.7047180
Ellipsoid Height (M):	361.932		
Geoid Height (M):	-27.954		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 45 AND STATE HIGHWAY 265, NORTH OF FAYETTEVILLE, GO NORTH ON HIGHWAY 265 3.0 MILES TO THE STATION ON THE RIGHT, 24.9 METERS EAST OF THE CENTERLINE AND WEST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720041 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 3 GUYS		15.80	51.8
MK # 2	SIGNAL LIGHT POLE		23.80	78.1
MK # 3	SS MANHOLE		9.30	30.5

AZ Mark Station	720041A
Geodetic Azimuth	271 29 19
Grid Azimuth	272 43 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	A 309
Ref Mon # 3	ENES

Comments

3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720041A	10/6/2004	AHTD	WASHINGTON	265	040440

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	201,338.1470	
Easting (M)	208,977.2670	
Elevation (M)*	388.070	
Northing (SFT)	660,556.9039	
Easting (SFT)	685,619.5835	
Elevation (SFT)*	1,273.193	

Convergence Angle	-1	14	5.8764743
Scale Factor	0.999981133		
Elevation Adjust. Factor	0.9999391029		
Combined Adjust. Factor	0.9999202370		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	46.3582452
Longitude	94	7	20.2872252
Ellipsoid Height (M):	360.117		
Geoid Height (M):	-27.956		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 45, NORTH OF FAYETTEVILLE, GO NORTH ON HIGHWAY 45 3.0 MILES TO ZION ROAD ON THE LEFT AND TURN LEFT (WEST) AND GO 0.2 MILES TO THE STATION MARK ON THE RIGHT, 7.05 METERS NORTH OF THE ROAD AND 13.75 METERS EAST OF RANDAL STREET AND NORTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720041A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MANHOLE		10.40	34.1
MK # 2	COMBINATION POLE		3.30	10.8
MK # 3				

AZ Mark Station	720041
Geodetic Azimuth	91 29 09
Grid Azimuth	92 43 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	A 309
Ref Mon # 3	ENES

Comments

3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720042	10/6/2004	AHTD	WASHINGTON	45	040440, 040486

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	196,637.4409	
Easting (M)	208,800.0260	
Elevation (M)*	430.908	
Northing (SFT)	645,134.6707	
Easting (SFT)	685,038.0853	
Elevation (SFT)*	1,413.737	

Convergence Angle	-1	14	7.6416153
Scale Factor	0.999974372		
Elevation Adjust. Factor	0.9999323811		
Combined Adjust. Factor	0.9999067548		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	5	13.7574204
Longitude	94	7	23.3206392
Ellipsoid Height (M):	402.944		
Geoid Height (M):	-27.942		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 45, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 45 FOR 0.06 MILES TO THE STATION MARK ON THE LEFT, 15.9 METERS SOUTH OF THE HIGHWAY AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720042 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROIUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	720014
Geodetic Azimuth	83 05 30
Grid Azimuth	84 19 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	A 309
Ref Mon # 3	ENES

Comments

3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720043	12/2/2004	AHTD	WASHINGTON	59	040442

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	181,150.4109	
Easting (M)	176,335.1590	
Elevation (M)*		
Northing (SFT)	594,324.3064	
Easting (SFT)	578,526.2675	
Elevation (SFT)*		

Convergence Angle	-1	26	33.4651804
Scale Factor	0.999955242		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	26.7943200
Longitude	94	28	45.0265728
Ellipsoid Height (M):	336.628		
Geoid Height (M):	-28.298		

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 62 EAST AND STATE HIGHWAY 59, WEST OF LINCOLN, GO SOUTH ON HIGHWAY 59 FOR 1.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.5 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 1.2 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720043 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	130	27.80	91.2
MK # 2	PIPE FENCE POST	214	2.60	8.5
MK # 3	PIPE FENCE POST	338	2.70	8.9

AZ Mark Station	720043A
Geodetic Azimuth	1 21 37
Grid Azimuth	2 48 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SAL 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720043A	12/2/2004	12/2/04	WASHINGTON	59	040442

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	181,958.2649
Easting (M)	176,374.7100
Elevation (M)*	
Northing (SFT)	596,974.7408
Easting (SFT)	578,656.0277
Elevation (SFT)*	

Convergence Angle	-1	26	33.0193656
Scale Factor	0.999956040		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	53.0300760
Longitude	94	28	44.2604352
Ellipsoid Height (M):	332.568		
Geoid Height (M):	-28.292		

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 62 EAST AND STATE HIGHWAY 59, WEST OF LINCOLN, GO SOUTH ON HIGHWAY 59 FOR 1.0 MILES TO THE STATION MARK ON THE RIGHT, WEST 11.65 METERS OF THE CENTERLINE OF THE HIGHWAY AND EAST 1.0 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "720043A 2005" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PIPE FENCE POST	214	2.60	8.5
MK # 2	PIPE FENCE POST	343	2.60	8.5
MK # 3				

AZ Mark Station	720043A
Geodetic Azimuth	181 21 37
Grid Azimuth	182 48 10

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SAL 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720044	8/9/2005	AHTD	WASHINGTON	412	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,539.0370	
Easting (M)	217,397.9320	
Elevation (M)*	407.191	
Northing (SFT)	674,339.3239	
Easting (SFT)	713,246.3819	
Elevation (SFT)*	1,335.924	

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	10	8.3818920	
Longitude	94	1	47.0487396	
Ellipsoid Height (M):	379.281			
Geoid Height (M):	-27.954			

Convergence Angle	-1	10	51.9652901	
Scale Factor	0.999987918			
Elevation Adjust. Factor	0.9999361026			
Combined Adjust. Factor	0.9999240214			

Location Description

T reach the station from the junction of US highway 412 and highway 265 east of Springdale go east on Hwy-412 for 5.30 miles to the station on the right on top of a high bank. 19.9 meters northeast of county road 382, 31.20 meters south of the center of Hwy-412 and 7.75 meters southwest of a witness post. The station mark is a standard 64mm cap stamped "720044 2005" set on top of an iron rod 0.80 meters long and is just below the ground surface.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Light pole with guy	042	6.35	20.8
MK # 2	Right of way marker	163	10.60	34.8
MK # 3	Guy wire	018	4.65	15.3

AZ Mark Station	720039
Geodetic Azimuth	254 39 29
Grid Azimuth	255 50 20

Area Reference Monuments (used for Processing)

Ref Mon # 1	720039A
Ref Mon # 2	720038
Ref Mon # 3	

Comments

3-Wire Elevations were ran from NGS J 309 and V 26 in Job 001966 - Springdale By-pass 12/2005.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720045	8/15/2005	AHTD	WASHINGTON	412	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	207,148.9520
Easting (M)	215,540.4100
Elevation (M)*	
Northing (SFT)	679,621.1867
Easting (SFT)	707,152.1618
Elevation (SFT)*	

Convergence Angle	-1	11	35.9866821
Scale Factor			0.999990469
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	59.3538060
Longitude	94	3	2.6999820
Ellipsoid Height (M):	343.116		
Geoid Height (M):	-27.960		

Location Description

To reach the station from the junction of Highway 264 and Hwy-71B north of Springdale go east on hwy-264 for 2.50 miles to "North mountain road" on the right, go right on North mountain road for 0.20 miles to "Reed road", go left on Reed road for 1.20 miles to "Luper road", go right on Luper road for 0.20 miles to "Monitor road", go left on Monitor road for 3.40 miles to the station on the right. The station mark is a standard 64mm cap stamped "720045 2005" set on top of an iron rod 0.80 meters long and is just below the grounds surface. This station replaces 720038.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	720038
Geodetic Azimuth	272 23 04
Grid Azimuth	273 34 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	720038
Ref Mon # 2	AGRONOMY
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720048	8/9/2005	AHTD	WASHINGTON	CR60	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	209,321.0290	
Easting (M)	195,988.7300	
Elevation (M)*		
Northing (SFT)	686,747.4093	
Easting (SFT)	643,006.3583	
Elevation (SFT)*		

Convergence Angle	-1	19	12.3490688
Scale Factor	0.999993371		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	11	55.8948876
Longitude	94	16	6.9637224
Ellipsoid Height (M):	311.333		
Geoid Height (M):	-28.040		

Location Description

To reach the station from the Washington and Benton county line on Highway 112 north of Elm Springs, go south on hwy-112 for 0.40 miles to county road 60 also known as Water ave. on the right, go right on Water ave. for 2.30 miles to the station on the right. 6.95 meters north of the center of Water ave. and 2.25 meters south of a witness post. The station mark is a standard 64mm cap stamped "720048 2005" set on top of an iron rod 1.22 meters long and is below the grounds' surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone riser	278	5.15	16.9
MK # 2	Telephone riser	210	16.90	55.4
MK # 3				

AZ Mark Station	720048A
Geodetic Azimuth	093 05 20
Grid Azimuth	094 24 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	720036, 720037, 040050, 04005
Ref Mon # 2	AGRONOMY
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720048A	8/9/2005	AHTD	WASHINGTON	CR60	001966

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	209,284.9660
Easting (M)	196,456.4530
Elevation (M)*	
Northing (SFT)	686,629.0926
Easting (SFT)	644,540.8796
Elevation (SFT)*	

Convergence Angle	-1	19	1.4382116
Scale Factor	0.999993328		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	11	55.0743756
Longitude	94	15	48.2132952
Ellipsoid Height (M):	321.473		
Geoid Height (M):	-28.037		

Location Description

To reach the station from the Washington and Benton county line on Hwy-112 north of Elm Springs go south on hwy-112 for 0.40 miles to county road 60 also known as "Water ave." on the right. Go right on Water ave. for 2.0 miles to the station on the left. 7.80 meters south of the center of county road 60, 6.50 meters from the center of a gravel drive and 0.50 meters north of a witness post. The station mark is a standard 64mm cap stamped "720048A 2005" set on top of an iron rod 1.22 meters long and is below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Gas meter	016	18.20	59.7
MK # 2	Gas meter	252	15.40	50.5
MK # 3				

AZ Mark Station	720048
Geodetic Azimuth	273 05 31
Grid Azimuth	274 24 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	720036, 720037, 040050, 04005
Ref Mon # 2	AGRONOMY
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720051	1/30/2007	AHTD	WASHINGTON	NA	040272, 012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	202,333.0910	
Easting (M)	205,655.5600	
Elevation (M)*	367.137	
Northing (SFT)	663,821.1494	
Easting (SFT)	674,721.6164	
Elevation (SFT)*	1,204.516	

Convergence Angle	-1	15	23.6693137
Scale Factor	0.999982523		
Elevation Adjust. Factor	0.9999423875		
Combined Adjust. Factor	0.9999249115		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	8	16.2878136
Longitude	94	9	33.9750684
Ellipsoid Height (M):	339.157		
Geoid Height (M):	-27.977		

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 412 (SUNSET) AND 71B (THOMPSON), IN SPRINGDALE, GO WEST ON HIGHWAY 412 FOR 0.90 MILES TO JOHNSON ROAD AND TURN LEFT (SOUTH) AND GO 2.5 MILES TO THE STATION MARK ON THE RIGHT, WEST 35.2 FEET OF THE CENTERLINE OF JOHNSON RD. AND NORTH 79.2 FEET OF NORTH HEWITT STREET, NORTH 24.3 FEET OF THE CENTERLINE OF THE RAILROAD AND SOUTH 31.0 FEET OF THE CENTERLINE OF OAK ROAD AND SOUTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720051 2007" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE ROAD.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	334	4.57	15.0
MK # 2	SOUTHEAST COR OF BRIDGE WING WALL	270	17.92	58.8
MK # 3				

AZ Mark Station	A 309
Geodetic Azimuth	238 59 08
Grid Azimuth	240 14 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	SPRINGDALE
Ref Mon # 2	A 309
Ref Mon # 3	ARHR

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720052	9/30/2008	AHTD	WASHINGTON	71B	040505

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	201,127.5639	
Easting (M)	206,989.4990	
Elevation (M)*	388.671	
Northing (SFT)	659,866.0159	
Easting (SFT)	679,098.0480	
Elevation (SFT)*	1,275.165	

Convergence Angle	-1	14	52.0186561
Scale Factor			0.999980754
Elevation Adjust. Factor			0.9999390086
Combined Adjust. Factor			0.9999197637

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	38.1304452
Longitude	94	8	39.5830680
Ellipsoid Height (M):	360.706		
Geoid Height (M):	-27.965		

Location Description

To reach the station from the junction of highways 412 east and 71B on the south edge of Springdale go south on 71B for 2.80 miles to the station on the left.57.40 feet east of the edge of the pavement and 1.50 feet west of a witness post The station mark is a 2 1/2 inch cap stamped "720052 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Metal traffic pole	224	19.87	65.2
MK # 2	manhole	150	16.46	54.0
MK # 3	End of metal fence	68	13.07	42.9

AZ Mark Station	720052A
Geodetic Azimuth	185 21 33
Grid Azimuth	186 36 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	720018 Reset
Ref Mon # 2	ARHR, ARFY
Ref Mon # 3	V 26

Comments

GPS DERIVED ELEVATIONS

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720052A	9/30/2008	AHTD	WASHINGTON	71B	040505

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	200,358.1290	
Easting (M)	206,900.3790	
Elevation (M)*	365.743	
Northing (SFT)	657,341.6282	
Easting (SFT)	678,805.6601	
Elevation (SFT)*	1,199.942	

Convergence Angle	-1	14	53.7020586
Scale Factor	0.999979613		
Elevation Adjust. Factor	0.9999426063		
Combined Adjust. Factor	0.9999222205		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	7	13.1095452
Longitude	94	8	42.4760136
Ellipsoid Height (M):	337.780		
Geoid Height (M):	-27.963		

Location Description

To reach the station from the junction of highways 412 east and 71B on the south edge of Springdale go south on 71B for 3.30 miles to the station on the left. Behind a guard rail.9.00 feet east of the edge of the southbound lane pavement and 4.20 feet east of a witness post The station mark is a 2 1/2 inch cap stamped "720052A 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northeast end of bridge on south bound lane	200	55.17	181.0
MK # 2	End of guard rail	003	6.06	19.9
MK # 3				

AZ Mark Station	720052
Geodetic Azimuth	5 21 31
Grid Azimuth	6 36 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	720018 Reset
Ref Mon # 2	ARFY, ARHR
Ref Mon # 3	V 26

Comments

GPS DERIVED ELEVATIONS

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720053	9/30/2008	AHTD	WASHINGTON	NA	040505, 012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	198,463.8870	
Easting (M)	204,626.3130	
Elevation (M)*	385.909	
Northing (SFT)	651,126.9359	
Easting (SFT)	671,344.8286	
Elevation (SFT)*	1,266.102	

Convergence Angle	-1	15	45.6344533
Scale Factor	0.999976802		
Elevation Adjust. Factor	0.9999394420		
Combined Adjust. Factor	0.9999162454		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	6	10.0499724
Longitude	94	10	11.7224004
Ellipsoid Height (M):	357.885		
Geoid Height (M):	-27.970		

Location Description

To reach the station from the junction of highways 540 and 112 (exit 66 on 540) go south on hwy-112 for 0.20 miles to Drake st. on the left. Turn left on Drake st. and go 0.40 miles to the station on the left at a farm entrance. 65.0 feet southeast of a farm road, 33.0 feet north of the center of Drake St. and 1.50 feet southwest of a witness post. The station mark is a 2 1/2 inch cap stamped "720053 2008" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the grounds surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	269	29.69	97.4
MK # 2	East end of gate	311	17.92	58.8
MK # 3				

AZ Mark Station	720018 Reset
Geodetic Azimuth	2 37 13
Grid Azimuth	3 52 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	720018 Reset
Ref Mon # 2	ARFY, ARHR
Ref Mon # 3	V 26

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS mark L310.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720054			WASHINGTON	NA	040151

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,640.6540	
Easting (M)	227,765.0620	
Elevation (M)*		

Northing (SFT)	674,672.7123	
Easting (SFT)	747,259.2076	
Elevation (SFT)*		

Convergence Angle	-1	6	50.6710203
Scale Factor	0.999988415		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	10	18.4144476
Longitude	93	54	52.3819044
Ellipsoid Height (M):	381.975		
Geoid Height (M):	-27.926		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720055	4/28/2009	AHTD	WASHINGTON	16	040498, 040569

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	190,017.5999	
Easting (M)	217,413.7670	
Elevation (M)*	365.001	
Northing (SFT)	623,416.0757	
Easting (SFT)	713,298.3339	
Elevation (SFT)*	1,197.508	

Convergence Angle	-1	10	44.1609796
Scale Factor	0.999966009		
Elevation Adjust. Factor	0.9999427227		
Combined Adjust. Factor	0.9999087337		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	44.9117940
Longitude	94	1	33.6369468
Ellipsoid Height (M):	337.013		
Geoid Height (M):	-27.907		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 74, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 FOR 0.1 MILES TO THE STATION MARK ON THE LEFT, SOUTH 37.4 FEET OF THE CENTERLINE OF HIGHWAY 16, 34.0 FEET WEST OF THE CENTERLINE OF TWIN OAKS DRIVE, EAST 104.0 FEET OF A CONCRETE DRIVE, AND NORTH 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED " 720055 2009 " ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER M ETER	248	1.80	5.9
MK # 2	POWER POLE	287	15.51	50.9
MK # 3				

AZ Mark Station	720055A
Geodetic Azimuth	291 34 31
Grid Azimuth	292 45 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720055A	4/28/2009	AHTD	WASHINGTON	16	040498, 040569

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	190,200.4389	
Easting (M)	216,977.8340	
Elevation (M)*	364.196	
Northing (SFT)	624,015.9400	
Easting (SFT)	711,868.1104	
Elevation (SFT)*	1,194.866	

Convergence Angle	-1	10	54.3788857
Scale Factor			0.999966221
Elevation Adjust. Factor			0.9999428491
Combined Adjust. Factor			0.9999090720

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	50.5514496
Longitude	94	1	51.1965300
Ellipsoid Height (M):	336.216		
Geoid Height (M):	-27.909		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 74, EAST OF FAYETTEVILLE, GO WEST ON HIGHWAY 16 FOR 0.4 MILES TO THE STATION MARK ON THE RIGHT, NORTH 36.3 FEET OF THE CENTERLINE OF HIGHWAY 16, 100.00 FEET WEST OF THE CENTERLINE OF A ASPHALT DRIVE, AND 4.4 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED " 720055A 2009 " ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CABLE MARKER	291	5.06	16.6
MK # 2	FENCE CORNER	8	1.55	5.1
MK # 3	GAS METER	89	13.56	44.5

AZ Mark Station	720055
Geodetic Azimuth	111 34 21
Grid Azimuth	112 45 15

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720056	12/2/2009	AHTD	WASHINGTON	112	012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	191,114.9790	
Easting (M)	203,011.2740	
Elevation (M)*	391.867	
Northing (SFT)	627,016.3936	
Easting (SFT)	666,046.1548	
Elevation (SFT)*	1,285.649	

Convergence Angle	-1	16	19.4027731
Scale Factor	0.999966979		
Elevation Adjust. Factor	0.9999385071		
Combined Adjust. Factor	0.9999054882		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	10.5143352
Longitude	94	11	9.7536264
Ellipsoid Height (M):	363.906		
Geoid Height (M):	-27.964		

Location Description

To reach the station from the junction of hwy-16 and 112 southwest of Fayetteville go south on hwy-112 for 0.90 miles to the station on the left at the top of the bank near the east corner of an overpass over hwy-71. 100.0 feet northeast of the center of hwy-71 north bound lane, 26.5 feet southeast of the center of 540 and 3.0 feet southeast of a witness post. The station is a 2 1/2 inch cap stamped "720056 2009" set on top of a 5/8 inch by 4.0 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northeast end of southeast guardrail	42	21.80	71.5
MK # 2	East corner of paraphet wall	252	1.70	5.6
MK # 3	Center of a drop inlet	25	5.21	17.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309, B 309, L 310, and R 310.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720057	8/17/2010	AHTD	WASHINGTON	16	040569

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,056.6749	
Easting (M)	213,658.7590	
Elevation (M)*	371.243	
Northing (SFT)	630,105.9409	
Easting (SFT)	700,978.7785	
Elevation (SFT)*	1,217.985	

Convergence Angle	-1	12	12.4149839
Scale Factor	0.999968447		
Elevation Adjust. Factor	0.9999417433		
Combined Adjust. Factor	0.9999101921		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	48.5231100
Longitude	94	4	5.3024160
Ellipsoid Height (M):	343.322		
Geoid Height (M):	-27.921		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 3.45 MILES TO THE STATION MARK ON THE LEFT, NORTH 47.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 1.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720057 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	332	5.03	16.5
MK # 2	SOUTHEAST CORNER STORM CELLAR	17	29.87	98.0
MK # 3	WATERWELL	30	28.04	92.0

AZ Mark Station	720057A
Geodetic Azimuth	266 30 12
Grid Azimuth	267 42 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	720055

Comments

ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720057A	8/17/2010	AHTD	WASHINGTON	16	040569, 040785

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,042.4949	
Easting (M)	213,304.6670	
Elevation (M)*	373.564	
Northing (SFT)	630,059.4187	
Easting (SFT)	699,817.0616	
Elevation (SFT)*	1,225.603	

Convergence Angle	-1	12	20.6382220
Scale Factor	0.999968420		
Elevation Adjust. Factor	0.9999413790		
Combined Adjust. Factor	0.9999098008		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	47.8216176
Longitude	94	4	19.4341404
Ellipsoid Height (M):	345.642		
Geoid Height (M):	-27.922		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 3.25 MILES TO THE STATION MARK ON THE RIGHT, 26 FEET OF CENTERLINE OF CONCRETE DRIVE, SOUTH 32.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720057A 2010" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	122	3.81	12.5
MK # 2	FENCE CORNER AND RIGHT OF WAY MKR	265	20.27	66.5
MK # 3				

AZ Mark Station	720057
Geodetic Azimuth	86 30 04
Grid Azimuth	87 42 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	720055

Comments

ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720058	8/17/2010	AHTD	WASHINGTON	16	040569

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,999.1239	
Easting (M)	208,796.2320	
Elevation (M)*	366.985	
Northing (SFT)	633,197.9590	
Easting (SFT)	685,025.6378	
Elevation (SFT)*	1,204.018	

Convergence Angle	-1	14	5.9059047
Scale Factor			0.999969520
Elevation Adjust. Factor			0.9999424113
Combined Adjust. Factor			0.9999119331

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	15.7372092
Longitude	94	7	20.3378016
Ellipsoid Height (M):	339.048		
Geoid Height (M):	-27.937		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 0.25 MILES TO THE STATION MARK ON THE RIGHT, SOUTH 24.2 FEET OF THE CENTERLINE OF THE HIGHWAY AND EAST 37.0 FEET OF THE CENTERLINE OF STONEBRIDGE ROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720058 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	227	8.29	27.2
MK # 2				
MK # 3				

AZ Mark Station	720058A
Geodetic Azimuth	74 40 54
Grid Azimuth	75 55 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	720055

Comments

ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720058A	8/17/2010	AHTD	WASHINGTON	16	040569

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	193,105.8359	
Easting (M)	209,221.5970	
Elevation (M)*	363.074	
Northing (SFT)	633,548.0633	
Easting (SFT)	686,421.1895	
Elevation (SFT)*	1,191.186	

Convergence Angle	-1	13	56.0716469
Scale Factor			0.999969669
Elevation Adjust. Factor			0.9999430250
Combined Adjust. Factor			0.9999126958

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	19.4958072
Longitude	94	7	3.4375224
Ellipsoid Height (M):	335.139		
Geoid Height (M):	-27.935		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 265 AND STATE HIGHWAY 16, SOUTHEAST OF FAYETTEVILLE, GO EAST ON HIGHWAY 16 0.5 MILES TO THE STATION MARK ON THE RIGHT, 15.3 FEET NORTH OF A FENCE AND SOUTH 24.7 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720058A 2010" ON TOP OF A 2.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH GUY	90	11.43	37.5
MK # 2				
MK # 3				

AZ Mark Station	720058
Geodetic Azimuth	254 41 04
Grid Azimuth	255 55 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	OKHV
Ref Mon # 3	720055

Comments

ELEVATIONS DETERMINED BY 3 WIRE DIGITAL LEVEL USING TBM 906 JOB#040486 AND TT 37 WM ON 9/2010 BY S5112.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720059	9/22/2010	AHTD	WASHINGTON	170	040570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	187,308.2909	
Easting (M)	194,836.8430	
Elevation (M)*	350.772	
Northing (SFT)	614,527.2844	
Easting (SFT)	639,227.2091	
Elevation (SFT)*	1,150.824	

Convergence Angle	-1	19	27.3226945
Scale Factor	0.999962231		
Elevation Adjust. Factor	0.9999449555		
Combined Adjust. Factor	0.9999071886		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	0	1.0275768
Longitude	94	16	32.6960616
Ellipsoid Height (M):	322.744		
Geoid Height (M):	-28.028		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 170 AND STATE HIGHWAY 62, WEST OF FARMINGTON, GO EAST ON 170 FOR 0.65 MILES TO THE MARK ON THE LEFT, NORTH 11.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720059 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	24	6.00	19.7
MK # 2	TELEPHONE BOX	301	10.05	33.0
MK # 3	COMBINATION POLE	285	23.89	78.4

AZ Mark Station	720059A
Geodetic Azimuth	91 57 02
Grid Azimuth	93 16 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, AGRONOMY
Ref Mon # 2	OKMU
Ref Mon # 3	SAL 5

Comments

ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720059A	9/22/2010	AHTD	WASHINGTON	170	040570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	187,293.4089	
Easting (M)	195,096.9430	
Elevation (M)*	345.842	
Northing (SFT)	614,478.4590	
Easting (SFT)	640,080.5538	
Elevation (SFT)*	1,134.650	

Convergence Angle	-1	19	21.2729858
Scale Factor			0.999962221
Elevation Adjust. Factor			0.9999457291
Combined Adjust. Factor			0.9999079521

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	0	0.7397568	
Longitude	94	16	22.2995712	
Ellipsoid Height (M):	317.817			
Geoid Height (M):	-28.025			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 170 AND STATE HIGHWAY 62, WEST OF FARMINGTON, GO EAST ON 170 FOR 0.85 MILES TO THE MARK ON THE RIGHT, SOUTH 14.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 17.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720059A 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	137	41.76	137.0
MK # 2	COMBINATION POLE	47	14.33	47.0
MK # 3				

AZ Mark Station	720059
Geodetic Azimuth	271 57 08
Grid Azimuth	273 16 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, AGRONOMY
Ref Mon # 2	OKMU
Ref Mon # 3	SAL 5

Comments

ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720060	9/22/2010	AHTD	WASHINGTON	170	040570

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	187,306.0970	
Easting (M)	194,943.3500	
Elevation (M)*	345.774	
Northing (SFT)	614,520.0866	
Easting (SFT)	639,576.6408	
Elevation (SFT)*	1,134.425	

Convergence Angle	-1	19	24.8475233
Scale Factor	0.999962231		
Elevation Adjust. Factor	0.9999457398		
Combined Adjust. Factor	0.9999079728		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	0	1.0362528
Longitude	94	16	28.4424528
Ellipsoid Height (M):	317.747		
Geoid Height (M):	-28.027		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 170 AND STATE HIGHWAY 62, WEST OF FARMINGTON, GO EAST ON 170 FOR 0.75 MILES TO THE MARK ON THE LEFT, NORTH 10.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 19.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "720060 2010" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST COR BRIDGE	275	8.23	27.0
MK # 2				
MK # 3				

AZ Mark Station	720059A
Geodetic Azimuth	93 23 56
Grid Azimuth	94 43 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR, AGRONOMY
Ref Mon # 2	OKMU
Ref Mon # 3	SAL 5

Comments

ELEVATIONS BY 3 WIRE DIGITAL LEVELS FROM 720022 AND CHECKED USING GPS FROM AGRONOMY. CREW S5112 ON 9-2010

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720061	7/24/2014	AHTD	WASHINGTON	CR58	BR0405

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	208,513.4552	0.0040
Easting (M)	190,204.0468	0.0040
Elevation (M)*		

Northing (SFT)	684,097.8943	
Easting (SFT)	624,027.7769	
Elevation (SFT)*		

Convergence Angle	-1	21	26.6052988
Scale Factor	0.999991792		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:	Geoid 12A	
Latitude	36 11 25.3166928	
Longitude	94 19 57.6845184	
Ellipsoid Height (M):	299.518	0.0080
Geoid Height (M):	-28.185	0.0080

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, WEST OF SPRIONGDALE, GO WEST ON 412 FOR 4.1 MILES TO OLD HIGHWAY 68 (COUNTY ROAD 58) ON THE RIGHT, TURN RIGHT AND GO 2.5 MILES TO THE MARK ON THE RIGHT, 35.3 FEET NORTHWEST OF THE CENTERLINE OF THE ROAD AND 8 FEET NORTHWEST OF A GRAVEL ROAD (COUNTY ROAD 88). THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2014 720061" ON TOPO OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PIPE FENCE CORNER	279	9.33	30.6
MK # 2	POWER POLE W/2 GUYS AND TRANSFORM ER	310	17.50	57.4
MK # 3				

AZ Mark Station	40113
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	MOA2
Ref Mon # 3	CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720062	3/29/2016	AHTD	WASHINGTON	180	040420, 040720

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	197,235.4954	0.0010
Easting (M)	205,342.9365	0.0020
Elevation (M)*	385.890	0.0031
Northing (SFT)	647,096.7878	
Easting (SFT)	673,695.9508	
Elevation (SFT)*	1,266.041	

Convergence Angle	-1	15	28.3392518
Scale Factor	0.999975096		
Elevation Adjust. Factor	0.9999394449		
Combined Adjust. Factor	0.9999145425		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	36	5	30.7162320
Longitude	94	9	42.0004080
Ellipsoid Height (M):	357.778	0.0090	
Geoid Height (M):	-28.069		

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 180 (TOWNSHIP ST) AND GREGG AVE. GO SOUTH ON GREGG AVE FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 11 FT. EAST OF A WITNESS POST, 48.5 FT. WEST OF THE CENTERLINE OF GREGG AVE., 28 FT. NORTH OF THE CENTERLINE OF W. GARRETT DR., AND 22.5 FT. EAST OF THE NEAREST RAIL. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720062 2016" SET ON TOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	185	22.10	72.5
MK # 2	RAILROAD CROSSING SIGN	280	3.60	11.8
MK # 3				

AZ Mark Station	720062A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	CTA1
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

Three wire based on NGS BM B27 Rese, by crew S5102 in April 2016.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720062A	3/29/2016	AHTD	WASHINGTON	180	040420, 040720

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	197,714.8136	0.0010
Easting (M)	205,411.9126	0.0020
Elevation (M)*	381.207	0.0007
Northing (SFT)	648,669.3510	
Easting (SFT)	673,922.2499	
Elevation (SFT)*	1,250.678	

Convergence Angle	-1	15	26.9798493
Scale Factor	0.999975768		
Elevation Adjust. Factor	0.9999401797		
Combined Adjust. Factor	0.9999159492		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID12A		
Latitude	36	5	46.3129440
Longitude	94	9	39.6642600
Ellipsoid Height (M):	353.091	0.0090	
Geoid Height (M):	-28.070		

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 180 (TOWNSHIP ST) AND GREGG AVE. GO NORTH ON GREGG AVE FOR 0.01 MILES TO THE STATION ON THE LEFT. THE STATION IS 18 FT. EAST OF A WITNESS POST, 90 FT. WEST OF THE CENTERLINE OF GREGG AVE., 24 FT. WEST OF NEAREST RAIL, AND 18.5 FT. EAST OF A WOOD FENCE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720062A 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	263	7.80	25.6
MK # 2	POWER POLE WITH LIGHT	18	40.40	132.5
MK # 3	POWER POLE WITH LIGHT	159	47.10	154.5

AZ Mark Station	720062
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	CTA1
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

Three wire based on NGS BM B27 Rese, by crew S5102 in April 2016.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720063	3/29/2016	AHTD	WASHINGTON	180	040420, 040720, CB7201

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	200,052.1273	0.0010
Easting (M)	204,894.1104	0.0010
Elevation (M)*	365.983	0.0015
Northing (SFT)	656,337.6877	
Easting (SFT)	672,223.4272	
Elevation (SFT)*	1,200.729	

Convergence Angle	-1	15	40.2190507
Scale Factor	0.999979100		
Elevation Adjust. Factor	0.9999425687		
Combined Adjust. Factor	0.9999216699		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	7	1.7585400
Longitude	94	10	2.4159720
Ellipsoid Height (M):	337.880	0.0090	
Geoid Height (M):	-28.081		

Location Description

TO REACH FROM THE INTERSECTION OF HWY 180 (TOWNSHIP ST) AND GREGG AVE. GO NORTH ON GREGG AVE. FOR 1.5 MILES TO VAN ASCHE DR. THEN GO WEST (LEFT) ON VAN ASCHE DR FOR 0.2 MILES TO THE STATION ON THE RIGHT. THE STATION IS 12 FT. SOUTH OF A WITNESS POST, 40.5 FT. NORTH OF THE CENTERLINE OF VAN ASCHE DR., 43.5 FT. WEST OF THE CENTERLINE OF ROOSEVELT AVE., AND 20 FT. EAST OF THE CENTER OF A MANHOLE. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720063 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOOD FENCE CORNER POST	17	3.70	12.1
MK # 2	TELEPHONE BOX	72	32.50	106.6
MK # 3				

AZ Mark Station	720063A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	CTA1
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

Superceded elevation of 366.0016m was based on digital levels by S5102 in April 2016 from NGS 1st Order BM B 27 reset.
**********UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720063A	3/29/2016	AHTD	WASHINGTON	180	040420, 040720, CB7201

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	200,053.7855	0.0010
Easting (M)	204,421.3979	0.0010
Elevation (M)*	370.974	0.0017
Northing (SFT)	656,343.1279	
Easting (SFT)	670,672.5363	
Elevation (SFT)*	1,217.104	

Convergence Angle	-1	15	51.2166091
Scale Factor			0.999979087
Elevation Adjust. Factor			0.9999417855
Combined Adjust. Factor			0.9999208737

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	36	7	1.4743560	
Longitude	94	10	21.3153960	
Ellipsoid Height (M):	342.858			0.0090
Geoid Height (M):	-28.084			

Location Description

TO REACH FROM THE INTERSECTION OF HWY. 180 (TOWNSHIP ST) AND GREGG AVE. GO NORTH ON GREGG AVE. FOR 1.5 MILES TO VAN ASCHE DR. THEN GO WEST (LEFT) ON VAN ASCHE DR. FOR 0.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 20 FT. NORTH OF A WITNESS POST, 39 FT. SOUTH OF THE CENTERLINE OF VAN ASCHE DR., 10.5 FT. EAST OF THE CENTER OF A MANHOLE, AND 3 FT. NORTH OF A CONCRETE SIDEWALK.THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "720063A 2016" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EASTERN POST OF WOOD "H" BRACE	206	6.70	22.0
MK # 2				
MK # 3				

AZ Mark Station	720063
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	CTA1
Ref Mon # 2	ARFY
Ref Mon # 3	ARHR

Comments

Superceded elevation of 370.9834m was based on digital levels by S5102 in April 2016 from NGS 1st Order BM B 27 reset.
**********UPDATED ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720064	4/5/2018	ARDOT	WASHINGTON	112	012270, 040751

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	200,168.3144	0.0020
Easting (M)	202,484.4649	0.0020
Elevation (M)*	382.519	

Northing (SFT)	656,718.8782	
Easting (SFT)	664,317.7819	
Elevation (SFT)*	1,254.982	

Convergence Angle	-1	16	36.3345895
Scale Factor	0.999979192		
Elevation Adjust. Factor	0.9999399739		
Combined Adjust. Factor	0.9999191671		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	7	3.7958916
Longitude	94	11	38.8511376
Ellipsoid Height (M):	354.429	0.0020	
Geoid Height (M):	-28.096	0.0020	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 1.5 MILES TO THE MARK ON THE LEFT, 55.8' WEST OF THE C/L OF THE HIGHWAY AND 33' NORTH OF THE C/L OF W HOWARD NICKLE RD, ALSO KNOWN AS COUNTY ROAD 119. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720064 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH LIGHT AND ME TER	209	18.07	59.3
MK # 2	SIGN "WOODLAND ESTATES"	322	15.54	51.0
MK # 3	18" RCP	49	4.84	15.9

AZ Mark Station	720064A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720064A	4/5/2018	ARDOT	WASHINGTON	EN ACRI	012270, 040751

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	200,726.8936	0.0010
Easting (M)	202,520.5040	0.0010
Elevation (M)*	394.220	

Northing (SFT)	658,551.4834	
Easting (SFT)	664,436.0202	
Elevation (SFT)*	1,293.370	

Convergence Angle	-1	16	35.7857841
Scale Factor	0.999980014		
Elevation Adjust. Factor	0.9999381378		
Combined Adjust. Factor	0.9999181531		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	7	21.9402264
Longitude	94	11	37.9080096
Ellipsoid Height (M):	366.120		0.0020
Geoid Height (M):	-28.096		0.0020

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 1.75 MILES TO HIDDEN ACRES RD AND GO STRAIGHT (NORTH) ON HIDDEN ACRES RD 0.1 MILES TO THE MARK ON THE LEFT AND 28.3' WEST OF THE C/L OF THE ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720064A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END 12" CMP	72	13.41	44.0
MK # 2	NORTH END 12" CMP	40	20.60	67.6
MK # 3	POWERPOLE W/2 GUYS	5	42.76	140.3

AZ Mark Station	720064
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720065	4/5/2018	ARDOT	WASHINGTON	112	012270, 040751

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	203,386.0559	0.0010
Easting (M)	201,565.5608	0.0010
Elevation (M)*	406.724	
Northing (SFT)	667,275.7517	
Easting (SFT)	661,303.0107	
Elevation (SFT)*	1,334.393	

Convergence Angle	-1	16	59.3877203
Scale Factor	0.999983996		
Elevation Adjust. Factor	0.9999361759		
Combined Adjust. Factor	0.9999201729		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	8	47.5012464
Longitude	94	12	18.4681944
Ellipsoid Height (M):	378.616		0.0030
Geoid Height (M):	-28.102		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 3.85 TO THE MARK ON THE LEFT 25.2' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720065 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE WITH 1 GUY	330	22.25	73.0
MK # 2	CENTER OF CHAINLINK GATE	179	26.45	86.8
MK # 3				

AZ Mark Station	720065A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720065A	4/5/2018	ARDOT	WASHINGTON	112	012270, 040751

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	203,788.1243	0.0020
Easting (M)	201,428.8531	0.0010
Elevation (M)*	400.280	

Northing (SFT)	668,594.8711	
Easting (SFT)	660,854.4955	
Elevation (SFT)*	1,313.251	

Convergence Angle	-1	17	2.7788317
Scale Factor	0.999984613		
Elevation Adjust. Factor	0.9999371870		
Combined Adjust. Factor	0.9999218010		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	9	0.4433688
Longitude	94	12	24.2958564
Ellipsoid Height (M):	372.169	0.0030	
Geoid Height (M):	-28.103	0.0030	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 4.1 MILES TO THE MARK ON THE LEFT 34' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720065A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/ELECTRIC BOX	180	28.04	92.0
MK # 2				
MK # 3				

AZ Mark Station	720065
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720066	4/5/2018	ARDOT	WASHINGTON	412	012270, 040751, 012305

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,666.7494	0.0010
Easting (M)	200,344.7724	0.0010
Elevation (M)*	395.710	

Northing (SFT)	678,039.1603	
Easting (SFT)	657,297.8074	
Elevation (SFT)*	1,298.259	

Convergence Angle	-1	17	29.5183035
Scale Factor	0.999989144		
Elevation Adjust. Factor	0.9999379041		
Combined Adjust. Factor	0.9999270487		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	10	33.0232908
Longitude	94	13	10.2479304
Ellipsoid Height (M):	367.593		0.0030
Geoid Height (M):	-28.112		0.0030

Location Description

THE STATION MARK IS IN THE SOUTHWEST CORNER OF THE JUNCTION OF STATE HIGHWAY 412 AND STATE HIGHWAY 112, IN TONTITOWN, 10.5' SOUTH OF THE BACK OF CURB OF HIGHWAY 412. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "720066 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	DROP INLET	79	11.28	37.0
MK # 2	TELEPHONE BOX	114	3.41	11.2
MK # 3	COMBINATION POLE W/2 GUYS	262	29.87	98.0

AZ Mark Station	720066A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720066A	4/5/2018	ARDOT	WASHINGTON	412	012270, 040751, 012305

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,711.3437	0.0020
Easting (M)	199,892.4435	0.0020
Elevation (M)*	392.166	

Northing (SFT)	678,185.4668	
Easting (SFT)	655,813.7917	
Elevation (SFT)*	1,286.632	

Convergence Angle	-1	17	40.0718968
Scale Factor	0.999989199		
Elevation Adjust. Factor	0.9999384601		
Combined Adjust. Factor	0.9999276598		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	10	34.1385816
Longitude	94	13	28.3843956
Ellipsoid Height (M):	364.046		0.0030
Geoid Height (M):	-28.115		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 412, IN TONTITOWN, GO WEST ON HIGHWAY 412 0.3 MILES TO THE MARK ON THE RIGHT 5.5' NORTH OF THE NORTH EDGE OF THE PAVEMENT OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720066A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/GAS METER	295	20.72	68.0
MK # 2				
MK # 3				

AZ Mark Station	720066
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720067	4/5/2018	ARDOT	WASHINGTON	112	012270, 012305

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	209,469.6873	0.0020
Easting (M)	199,301.4080	0.0020
Elevation (M)*	361.256	

Northing (SFT)	687,235.1324	
Easting (SFT)	653,874.7027	
Elevation (SFT)*	1,185.221	

Convergence Angle	-1	17	55.2868771
Scale Factor	0.999993749		
Elevation Adjust. Factor	0.9999433104		
Combined Adjust. Factor	0.9999370597		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	12	3.1725684
Longitude	94	13	54.5315052
Ellipsoid Height (M):	333.136	0.0040	
Geoid Height (M):	-28.122	0.0040	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 412, IN TONTITOWN, GO NORTH ON HIGHWAY 112 1.9 MILES TO THE MARK ON THE LEFT 18.8' WEST OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720067 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/GUY	245	3.51	11.5
MK # 2	CENTER OF HDWL	141	11.73	38.5
MK # 3				

AZ Mark Station	720067A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720067A	4/5/2018	ARDOT	WASHINGTON	112	012270, 012305

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	209,871.9889	0.0020
Easting (M)	198,992.3823	0.0020
Elevation (M)*	355.124	

Northing (SFT)	688,555.0169	
Easting (SFT)	652,860.8409	
Elevation (SFT)*	1,165.101	

Convergence Angle	-1	18	2.6959024
Scale Factor	0.999994420		
Elevation Adjust. Factor	0.9999442726		
Combined Adjust. Factor	0.9999386930		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12B		
Latitude	36	12	15.9938712
Longitude	94	14	7.2639960
Ellipsoid Height (M):	326.997		0.0040
Geoid Height (M):	-28.124		0.0040

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND STATE HIGHWAY 412, IN TONTITOWN, GO NORTH ON HIGHWAY 112 2.2 MILES TO THE MARK ON THE LEFT, 50' WEST OF THE C/L OF THE HIGHWAY AND NORTH 31.6' OF THE C/L OF SCOTT ST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720067A 2018" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE W/GUT	342	11.43	37.5
MK # 2	SOUTHWEST CORNER OF BRIDGE END	7	25.45	83.5
MK # 3				

AZ Mark Station	720067
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720068	4/6/2020	ARDOT	WASHINGTON	CR 25	040784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	197,980.3294	0.0030
Easting (M)	174,427.6559	0.0030
Elevation (M)*		

Northing (SFT)	649,540.4640	
Easting (SFT)	572,268.0677	
Elevation (SFT)*		

Convergence Angle	-1	27	27.6782156
Scale Factor	0.999975113		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	36	5	31.1078832	
Longitude	94	30	18.1922652	
Ellipsoid Height (M):	262.392			0.0120
Geoid Height (M):	-28.420			0.0120

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 244, SOUTH OF SILOAM SPRINGS, GO EAST ON HIGHWAY 244 1.65 MILES TO COUNTY ROAD 25 AND TURN RIGHT (SOUTH) AND GO 0.15 MILES TO THE MARK ON THE LEFT, 23' EAST OF THE C/L OF CR 25 AND WEST 4.4' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720068 2020" ON TOP OFA 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	720068A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720068A	4/6/2020	ARDOT	WASHINGTON	CR 25	040784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	198,437.9175	0.0030
Easting (M)	174,293.2657	0.0040
Elevation (M)*		

Northing (SFT)	651,041.7343	
Easting (SFT)	571,827.1559	
Elevation (SFT)*		

Convergence Angle	-1	27	31.0742457
Scale Factor			0.999975748
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	36	5	45.8384316
Longitude	94	30	24.0283800
Ellipsoid Height (M):	265.657		0.0120
Geoid Height (M):	-28.421		0.0120

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 244, SOUTH OF SILOAM SPRINGS, GO EAST ON HIGHWAY 244 1.65 MILES TO COUNTY ROAD 25 AND TURN LEFT (NORTH) AND GO 0.10 MILES TO THE MARK ON THE LEFT, 21' WEST OF THE C/L OF CR 25 AND EAST 11.4' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720068A 2020" ON TOP OFA 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MIDDLE POST OF 3 PIPE POST	98	15.67	51.4
MK # 2				
MK # 3				

AZ Mark Station	720068
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, CTA1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720069	9/29/2020	ARDOT	WASHINGTON	71	04X114

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	183,725.6492	0.0030
Easting (M)	204,631.9285	0.0030
Elevation (M)*		

Northing (SFT)	602,773.2341	
Easting (SFT)	671,363.2521	
Elevation (SFT)*		

Convergence Angle	-1	15	37.9609255
Scale Factor	0.999958538		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	58	11.9836164
Longitude	94	9	58.5353592
Ellipsoid Height (M):	369.514		0.0030
Geoid Height (M):	-28.078		0.0030

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 156E, SOUTH OF FAYETTEVILLE, GO SOUTH ON HIGHWAY 71 3.75 MILES THE MARK ON THE LEFT, EAST 14" OF THE C/L OF THE HIGHWAY AND NORTH OF THE C/L OF A DRIVEWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720069 2020" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTHWEST CORNER ROCK HOUSE	123	21.82	71.6
MK # 2	TELEPHONE BOX	35	14.78	48.5
MK # 3				

AZ Mark Station	W 310
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFS
Ref Mon # 3	ARRV

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 FROM NGS 1ST ORDER BM W 310 IN OCT. 2020 FOR NON-PROGRAMMED JOB #04X114.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720070	10/7/2020	ARDOT	WASHINGTON	45	04X219, 04X098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	173,653.6952	0.0030
Easting (M)	177,668.5347	0.0030
Elevation (M)*		

Northing (SFT)	569,728.8317	
Easting (SFT)	582,900.8509	
Elevation (SFT)*		

Convergence Angle	-1	25	58.1651327
Scale Factor	0.999948642		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	52	24.7143360
Longitude	94	27	44.3630556
Ellipsoid Height (M):	291.232		0.0120
Geoid Height (M):	-28.466		0.0120

Location Description

TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND HIGHWAY 45N, NORTH OF DUTCH MILLS, GO NORTH ON HIGHWAY 45 FOR 1.6 MILES TO THE MARK ON THE LEFT, NORTH 31.1' OF THE C/L OF THE HIGHWAY AND SOUTH 8.2' OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP ON TOP OF A 4' REBAR STAMPED "2020 720070" AND DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	214	22.28	73.1
MK # 2				
MK # 3				

AZ Mark Station	720070A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720070A	10/7/2020	ARDOT	WASHINGTON	CR 433	04X219, 04X098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	173,628.3573	0.0030
Easting (M)	177,295.0097	0.0030
Elevation (M)*		

Northing (SFT)	569,645.7022	
Easting (SFT)	581,675.3777	
Elevation (SFT)*		

Convergence Angle	-1	26	6.8126947
Scale Factor	0.999948615		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	52	23.5891560
Longitude	94	27	59.2239852
Ellipsoid Height (M):	296.661		0.0120
Geoid Height (M):	-28.473		0.0120

Location Description

TO REACH THE SATION MARK FROM THE JUNCTION OF STATE HIGHWAY 59 AND HIGHWAY 45N, NORTH OF DUTCH MILLS, GO NORTH ON HIGHWAY 45 FOR 1.3 MILES TO COUNTY ROAD 433 AND TURN RIGHT (SOUTH) AND GO 0.1 MILES TO A PRIVATE DRIVE ON THE LEFT, TURN LEFT HERE AND FOLLOW IT 200" TO A Y, TAKE THE LEFT FORK FOR 200' TO THE MARK ON THE LEFT, THE MARK IS A STANDARD 2 1/2" CAP ON TOP OF A 4' REBAR STAMPED "2020 720070A" AND DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF A CHICKEN HOU SE	192	8.72	28.6
MK # 2	SOTHEAST CORNER OF A METAL BARN	263	28.04	92.0
MK # 3	WATER WELL	111	10.67	35.0

AZ Mark Station	720070
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARRV
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720071	5/25/2021	AHTD	WASHINGTON	412	040894

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,594.7578	0.0020
Easting (M)	203,406.5673	0.0020
Elevation (M)*	408.253	
Northing (SFT)	677,802.9679	
Easting (SFT)	667,343.0462	
Elevation (SFT)*	1,339.410	

Convergence Angle	-1	16	18.2024232
Scale Factor	0.999989138		
Elevation Adjust. Factor	0.9999359359		
Combined Adjust. Factor	0.9999250746		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	10	32.9100240
Longitude	94	11	7.6908120
Ellipsoid Height (M):	380.131	0.0060	
Geoid Height (M):	-28.098	0.0060	

Location Description

THE INTERSECTION OF US HWY. 412 AND US HWY. 71B IN SPRINGDALE, AR. GO WEST ON US HWY. 412 FOR 2.60 MILES TO THE STATION ON THE RIGHT. 6.2' EAST OF THE EAST EDGE OF I-49

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST BRIDGE CORNER	209	89.70	294.3
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	CTA1, V 26

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720072	3/14/2023	ARDOT	WASHINGTON	N/A	CB7201

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	202,120.0118	0.0020
Easting (M)	205,307.6439	0.0010
Elevation (M)*	362.696	
Northing (SFT)	663,122.0720	
Easting (SFT)	673,580.1617	
Elevation (SFT)*	1,189.945	

Convergence Angle	-1	15	31.6560489
Scale Factor	0.999982189		
Elevation Adjust. Factor	0.9999430844		
Combined Adjust. Factor	0.9999252744		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	36	8	9.1285296
Longitude	94	9	47.7003600
Ellipsoid Height (M):	334.617	0.0020	
Geoid Height (M):	-28.082		

Location Description

TO REACH FROM THE JCT. OF ELMORE ST AND N HEWITT ST IN JOHNSON, HEAD WEST ON N HEWITT ST FOR 0.25 MILES TO STACI PL. HEAD NORTH/RIGHT ON STACI PLACE TO THE END OF THE CULDESAC THE POINT IS DUE NORTH OF THE END OF THE CULDESAC. THE POINT IS 35.9FT S OF THE EDGE OF THE RAILROAD TRACK, AND 32.0FT N OF THE NE CORNER OF HOUSE NUMBER 5411. THE STATION MARK IS A 2 1/2IN CAP STAMPED "720072 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	60	22.20	72.8
MK # 2	LIGHTPOLE 148246	288	25.30	83.0
MK # 3				

AZ Mark Station	A 309
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	CTA1, 720063, 720063A

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN MARCH 2023 FROM 1ST ORDER NGS PUBLISHED BM A 309 FOR JOB #CB7201

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720073	2/20/2024	ARDOT	WASHINGTON	I-49	040925

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	160,660.7266	0.0020
Easting (M)	201,706.2191	0.0020
Elevation (M)*		
Northing (SFT)	527,101.0672	
Easting (SFT)	661,764.4872	
Elevation (SFT)*		

Convergence Angle	-1	16	33.9659533
Scale Factor	0.999940708		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	45	41.6824848
Longitude	94	11	34.7806104
Ellipsoid Height (M):	464.672	0.0070	
Geoid Height (M):	-28.334	0.0070	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-49 AND EAST FRONT AVE. IN CHESTER, GO NORTH ON I-49 FOR 7.15 MILES TO THE STATION ON THE RIGHT/EAST. THE STATION MARK IS 7FT EAST OF THE EAST EDGE OF I-49. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720073 2024" AND SET ON TOP OF A 4 FT BY 5/8 IN REBAR DRIVEN 0.10 IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FRENCH DRAIN OUTLET		70.00	229.7
MK # 2				
MK # 3				

AZ Mark Station	720073A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720073A	2/20/2024	ARDOT	WASHINGTON	I-49	040925

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	161,000.0498	0.0020
Easting (M)	201,891.3141	0.0020
Elevation (M)*		

Northing (SFT)	528,214.3301	
Easting (SFT)	662,371.7530	
Elevation (SFT)*		

Convergence Angle	-1	16	29.8540881
Scale Factor			0.999940876
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	45	52.8236820
Longitude	94	11	27.7143252
Ellipsoid Height (M):	472.365		0.0070
Geoid Height (M):	-28.325		0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-49 AND EAST FRONT AVE. IN CHESTER, GO NORTH ON I-49 FOR 7.4 MILES TO THE STATION ON THE RIGHT/EAST. THE STATION MARK IS 9FT EAST OF THE EAST EDGE OF I-49. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720073 2024" AND SET ONTOP OF A 4FT BY 5/8 IN REBAR DRIVEN 0.10 IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH END OF SOUTHEAST GUARDRAIL		45.70	149.9
MK # 2				
MK # 3				

AZ Mark Station	720073
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

ELEV. = 1642.6825 US FT. FROM DIGITAL LEVELS FROM GPS #720073 STATIC DERIVED ELEV.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720074	2/20/2024	ARDOT	WASHINGTON	I-49	040925

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	162,433.3796	0.0020
Easting (M)	202,365.6452	0.0020
Elevation (M)*		

Northing (SFT)	532,916.8462	
Easting (SFT)	663,927.9543	
Elevation (SFT)*		

Convergence Angle	-1	16	19.6054067
Scale Factor			0.999941615
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	46	39.6623208
Longitude	94	11	10.1018544
Ellipsoid Height (M):	429.970		0.0070
Geoid Height (M):	-28.291		0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-49 AND EAST FRONT AVE. IN CHESTER, GO NORTH ON I-49 FOR 8.4 MILES TO THE STATION ON THE RIGHT/EAST. THE STATION MARK IS 34FT EAST OF THE EAST EDGE OF I-49. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720074 2024" AND SET ON TOP OF A 4 FT BY 5/8 IN REBAR DRIVEN 0.10 IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST END OF BRIDGE		10.10	33.1
MK # 2	FRENCH DRAIN OUTLET		4.60	15.1
MK # 3				

AZ Mark Station	720074A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720074A	2/20/2024	ARDOT	WASHINGTON	I-49	040925

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	162,039.4155	0.0020
Easting (M)	202,335.0761	0.0020
Elevation (M)*		

Northing (SFT)	531,624.3157	
Easting (SFT)	663,827.6622	
Elevation (SFT)*		

Convergence Angle	-1	16	20.1108489
Scale Factor			0.999941408
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	Geoid 18		
Latitude	35	46	26.8602888
Longitude	94	11	10.9704624
Ellipsoid Height (M):	448.092		0.0070
Geoid Height (M):	-28.298		0.0070

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I-49 AND EAST FRONT AVE. IN CHESTER, GO NORTH ON I-49 FOR 8.15 MILES TO THE STATION ON THE RIGHT/EAST. THE STATION MARK IS 6FT EAST OF THE EAST EDGE OF I-49. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "720074A 2024" AND SET ONTOP OF A 4FT BY 5/8 IN REBAR DRIVEN 0.10 IN BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END NORTHEAST GUARDRAIL		75.00	246.1
MK # 2				
MK # 3				

AZ Mark Station	720074
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. = 1562.9802 US FT. FROM DIGITAL LEVELS FROM GPS #720074 STATIC DERIVED ELEV.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720075	4/17/2024	AHTD	WASHINGTON	170	04X380

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	163,079.9073	0.0010
Easting (M)	196,632.2765	0.0010
Elevation (M)*	317.258	
Northing (SFT)	535,037.9959	
Easting (SFT)	645,117.7272	
Elevation (SFT)*	1,040.872	

Convergence Angle	-1	18	32.7563274
Scale Factor	0.999941892		
Elevation Adjust. Factor	0.9999502143		
Combined Adjust. Factor	0.9998921092		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	46	56.4450960
Longitude	94	14	58.9231644
Ellipsoid Height (M):	288.922	0.0080	
Geoid Height (M):	-28.358		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 170 AND HIGHWAY 220 (LEE CREEK RD) IN WASHINGTON COUNTY TRAVEL EAST ALONG HIGHWAY 170 FOR 0.8 MILES TO THE STATION ON THE RIGHT SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOR GPS CAP STAMPED 720075, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 24FT SOUTHWEST OF THE CENTER OF HIGHWAY 170, 83FT SOUTHEAST OF THE NORTHEAST END OF A 24IN REINFORCED CONCRET PIPE THAT RUNS UNDER HIGHWAY 170, AND 28FT NORTHWEST OF A DRIVEWAY THAT LEADS TO A PARKING LOT FOR A HIKING TRAIL.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	5X5 CONC R/W MARKER	40	12.00	39.4
MK # 2	NORTHWEST CORNER OF LEE CREEK BRID GE	310	37.00	121.4
MK # 3				

AZ Mark Station	720075A
Geodetic Azimuth	223 19 14.1
Grid Azimuth	224 37 48.1

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	AROZ

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM STATIC DERIVED ELEV ON GPS 720075A BY S5102 DURING JOB 04X380 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720075A	4/17/2024	AHTD	WASHINGTON	170	04X380

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	162,965.1597	0.0010
Easting (M)	196,519.0012	0.0010
Elevation (M)*	309.258	
Northing (SFT)	534,661.5281	
Easting (SFT)	644,746.0898	
Elevation (SFT)*	1,014.625	

Convergence Angle	-1	18	35.3196285
Scale Factor	0.999941829		
Elevation Adjust. Factor	0.9999514696		
Combined Adjust. Factor	0.9998933015		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	46	52.6388052
Longitude	94	15	3.3282252
Ellipsoid Height (M):	280.897	0.0080	
Geoid Height (M):	-28.362		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 170 AND HIGHWAY 220 (LEE CREEK RD) IN WASHINGTON COUNTY, TRAVEL EAST ALONG HIGHWAY 170 FOR 0.9 MILES TO THE STATION ON THE RIGHT SIDE OF THE ROAD. THE STATION IS A STANDARD 2.5IN ALUMINUM ARDOT GPS CAP STAMPED 720075A, 2024 SET JUST BELOW THE SURFACE OF THE GROUND ON TOP OF A 5/8IN REBAR 4FT IN LENGTH. THE STATION IS 72.5FT NORTHWEST OF THE CENTER OF HIGHWAY AND 31FT EAST SOUTHEAST OF THE EDGE OF LEE CREEK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST END OF A 36IN RCP	270	21.00	68.9
MK # 2	NORTHEAST END OF THE ROOF PEAK OF A N OLD ROCK CABIN	30	73.00	239.5
MK # 3				

AZ Mark Station	720075
Geodetic Azimuth	43 19 14.1
Grid Azimuth	44 37 48.1

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	AROZ

Comments

ELEV WAS EST BY STATIC OBS HOLDING AN OFFSET FROM NGS BM U 312 BY S5102 DURING JOB 04X380 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720076	10/15/2025	ARDOT	Washington	412	012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,919.5911	0.0010
Easting (M)	221,159.4100	0.0010
Elevation (M)*		

Northing (SFT)	678,868.6918	
Easting (SFT)	725,587.1643	
Elevation (SFT)*		

Convergence Angle	-1	9	25.0508020
Scale Factor	0.999990282		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID 18		
Latitude	36	10	55.6528080
Longitude	93	59	17.6852436
Ellipsoid Height (M):	384.235		0.0040
Geoid Height (M):	-28.044		0.0040

Location Description

To reach from the intersection of Hwy. 412 and Hwy. 303 South go West on Hwy. 412 for 3.15 miles to the station on the Right/North. The station is 60.2' North of the edge of pavement Hwy. 412, and 53.4' West of the edge of pavement Nob Hill Loop. The station mark is a standard 2 1/2 in. aluminium cap stamped "720076 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	24" RCP W/FES	119	13.30	43.6
MK # 2	Wood Fence Corner	8	7.00	23.0
MK # 3	Combination Pole	341	5.90	19.4

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:36.1056 LG:93.5918

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720076A	10/15/2025	ARDOT	Washington	412	012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,917.5316	0.0010
Easting (M)	221,555.4770	0.0010
Elevation (M)*		

Northing (SFT)	678,861.9349	
Easting (SFT)	726,886.5941	
Elevation (SFT)*		

Convergence Angle	-1	9	15.8282597
Scale Factor			0.999990291
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID 18		
Latitude	36	10	55.8451740
Longitude	93	59	1.8362040
Ellipsoid Height (M):	382.235		0.0040
Geoid Height (M):	-28.043		0.0040

Location Description

To reach from the intersection of Hwy. 412 and Hwy. 303 South, go West on Hwy. 412 for 2.9 miles to the station on the Left/South. The station is 47.0' South of the edge of pavement Hwy.412. The station mark is a standard 2 1/2 in. aluminium cap stamped "720076A 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	ARDOT ROW Marker	250	9.90	32.5
MK # 2	Metal Fence Post	181	2.70	8.9
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:36.1056 LG:93.5902

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720077	10/20/2025	ARDOT	Washington	412	012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,277.0045	0.0010
Easting (M)	223,873.9057	0.0010
Elevation (M)*		

Northing (SFT)	676,760.4723	
Easting (SFT)	734,492.9723	
Elevation (SFT)*		

Convergence Angle	-1	8	21.5516714
Scale Factor	0.999989321		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID 18		
Latitude	36	10	36.5737296
Longitude	93	57	28.5612948
Ellipsoid Height (M):	385.825		0.0040
Geoid Height (M):	-28.032		0.0040

Location Description

To reach from the intersection of Hwy. 412 and Hwy. 303 South go West on Hwy. 412 for 1.4 miles to the station on the Left/South. The station is 50.3' South of the edge of pavement Hwy. 412. The station mark is a standard 2 1/2 in. aluminium cap stamped "720077 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Metal Fence Corner	270	26.80	87.9
MK # 2	Metal Fence Post	178	2.60	8.5
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:36.1037 LG:93.5729

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
720077A	10/20/2025	ARDOT	Washington	412	012554

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	206,304.0198	0.0010
Easting (M)	224,273.8451	0.0010
Elevation (M)*		

Northing (SFT)	676,849.1050	
Easting (SFT)	735,805.1068	
Elevation (SFT)*		

Convergence Angle	-1	8	12.2529734
Scale Factor			0.999989378
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID 18		
Latitude	36	10	37.7077440
Longitude	93	57	12.5813808
Ellipsoid Height (M):	393.801		0.0040
Geoid Height (M):	-28.031		0.0040

Location Description

To reach from the intersection of Hwy. 412 and Hwy. 303 South, go West on Hwy. 412 for 1.1 miles to the station on the Righ/North. The station is 5.4' North of the edge of pavement Hwy.412, and 52.8' South of a 5barb fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "720077A 2025" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:36.1038 LG:93.5713

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730001	8/11/1994	AHTD	WHITE	5	005980, 001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	101,812.3021	
Easting (M)	393,761.9840	
Elevation (M)*	187.302	
Northing (SFT)	334,029.1945	
Easting (SFT)	1,291,867.4425	
Elevation (SFT)*	614.507	

Convergence Angle	0	2	23.5936658
Scale Factor	0.999952747		
Elevation Adjust. Factor	0.9999706071		
Combined Adjust. Factor	0.9999233555		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	15	3.6954108
Longitude	92	4	6.7672812
Ellipsoid Height (M):	158.980		
Geoid Height (M):	-28.276		

Location Description

FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN EDGE OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 9.54 KM (5.93 MILES) TO THE STATION ON THE LEFT. THE STATION 10.9 METERS EAST OF THE CENTERLINE OF HWY. 5, 28.5 METERS WEST OF THE CENTER OF "HILLTOP ACRES ROAD" AND 1.31 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730001" SET ON TOP OF A 3/4" REBAR 1.22 METERSIN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	5	22.00	72.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730001A
Geodetic Azimuth	184 44 37.14648
Grid Azimuth	184 47 00.74413

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	HEBEPORT
Ref Mon # 3	TT 30 RDM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730001A	8/11/1994	AHTD	WHITE	5	005980, 001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	101,303.6312	
Easting (M)	393,719.4170	
Elevation (M)*	188.009	
Northing (SFT)	332,360.3300	
Easting (SFT)	1,291,727.7873	
Elevation (SFT)*	616.826	

Convergence Angle	0	2	24.5653139
Scale Factor	0.999953212		
Elevation Adjust. Factor	0.9999704961		
Combined Adjust. Factor	0.9999237095		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	14	47.1880788
Longitude	92	4	8.4370692
Ellipsoid Height (M):	159.687		
Geoid Height (M):	-28.273		

Location Description

FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN EDGE OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 10.04 KM (6.24 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.95 METERS EAST OF THE CENTERLINE OF HWY. 5 AND 0.92 METERS EAST OF A WITNESS POST AND FENCE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730001A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	98	24.40	80.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730001
Geodetic Azimuth	4 44 36.18332
Grid Azimuth	4 47 00.74465

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	HEBEPORT
Ref Mon # 3	TT 30 RDM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730002	8/11/1994	AHTD	WHITE	5	005980, 001748,050067

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	106,861.1401	
Easting (M)	392,554.0440	
Elevation (M)*	195.618	
Northing (SFT)	350,593.5905	
Easting (SFT)	1,287,904.3927	
Elevation (SFT)*	641.790	

Convergence Angle	0	2	51.4960045	
Scale Factor	0.999948471			
Elevation Adjust. Factor	0.9999693021			
Combined Adjust. Factor	0.9999177747			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	17	47.4999180	
Longitude	92	4	54.7177548	
Ellipsoid Height (M):	167.311			
Geoid Height (M):	-28.303			

Location Description

FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 IN THE WESTERN PART OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 4.02 KM (2.5 MILES) TO THE STATION ON THE LEFT. THE STATION IS 11.10 METERS EAST OF THE CENTERLINE OF HWY. 5, 8.0 METERS NORTH OF THE CENTER OF A CONCRETE DRIVEWAY, 1.15 METERS WEST OF A BRACE POST AND 0.97 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730002" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN CORNER POST	149	2.70	8.9
MK # 2	18" METAL CULVERT	215	5.33	17.5
MK # 3	NONE			

AZ Mark Station	730002A
Geodetic Azimuth	183 32 16.61053
Grid Azimuth	183 35 08.10935

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	HEBEPORT
Ref Mon # 3	TT 30 RDM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730002A	8/11/1994	AHTD	WHITE	5	005980, 001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	106,305.5171	
Easting (M)	392,519.2270	
Elevation (M)*	191.668	
Northing (SFT)	348,770.6840	
Easting (SFT)	1,287,790.1639	
Elevation (SFT)*	628.831	

Convergence Angle	0	2	52.2872244
Scale Factor	0.999948911		
Elevation Adjust. Factor	0.9999699219		
Combined Adjust. Factor	0.9999188345		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	29.4690732
Longitude	92	4	56.0774748
Ellipsoid Height (M):	163.370		
Geoid Height (M):	-28.301		

Location Description

FROM THE WESTERNMOST JCT. OF HWY. 5 AND HWY. 36 ON THE WESTERN EDGE OF THE TOWN OF ROSEBUD, GO SOUTH ON HWY. 5 FOR 4.55 KM (2.83 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.4 METERS WEST OF THE CENTERLINE OF HWY. 5 AND 1.45 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 2 1/2" CAP STAMPED "730002A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730002
Geodetic Azimuth	3 32 15.824935
Grid Azimuth	3 35 08.109346

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	HEBEPORT
Ref Mon # 3	TT 30 RDM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730003	12/5/1995	AHTD	WHITE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	84,196.6181	
Easting (M)	392,224.1300	
Elevation (M)*	91.160	
Northing (SFT)	276,235.0712	
Easting (SFT)	1,286,821.9998	
Elevation (SFT)*	299.081	

Convergence Angle	0	2	58.6425091
Scale Factor	0.999972565		
Elevation Adjust. Factor	0.9999856942		
Combined Adjust. Factor	0.9999582596		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	5	32.0255952
Longitude	92	5	6.9991008
Ellipsoid Height (M):	63.031		
Geoid Height (M):	-28.129		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO SOUTH ON HWY-5 FOR 2.01 KM. (1.25 MI.) TO THE STATION ON THE RIGHT. 16.10 METERS NORTH OF THE CENTER OF A GRAVEL DRIVEWAY, 11.65 METERS WEST OF THE CENTER OF HWY-5 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730003 1995" SET ON TOP OF AN IRON ROD 1.0 METER LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	196	24.95	81.9
MK # 2	NORTH END OF METAL DRAIN PIPE UNDER DRIVE	176	12.87	42.2
MK # 3	22' (0.55 M) PINE TREE	323	24.95	81.9

AZ Mark Station	730003A
Geodetic Azimuth	183 43 39.4131
Grid Azimuth	183 46 38.0604

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730003A	12/4/1995	AHTD	WHITE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	83,670.4921	
Easting (M)	392,189.3950	
Elevation (M)*	81.498	
Northing (SFT)	274,508.9395	
Easting (SFT)	1,286,708.0401	
Elevation (SFT)*	267.381	

Convergence Angle	0	2	59.4299939
Scale Factor			0.999973274
Elevation Adjust. Factor			0.9999872105
Combined Adjust. Factor			0.9999604848

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	5	14.9517276
Longitude	92	5	8.3524020
Ellipsoid Height (M):	53.375		
Geoid Height (M):	-28.123		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO SOUTH ON HWY-5 FOR 2.57 KM. (1.60 MI.) TO THE STATION ON THE RIGHT NEAR A GARDEN SITE. 50.3 METERS SOUTH OF "DOUG SHORT ROAD", 11.4 METERS WEST OF THE CENTER OF HWY-5 AND 1.24 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730003A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE RIGHT OF WAY MARKER	270	1.35	4.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730003
Geodetic Azimuth	3 43 38.63518
Grid Azimuth	3 46 38.06041

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

ELEVATION BY 3-WIRE USING ARKANSAS GEODETIC SURVEY BENCH MARK "WNV 1940".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730004	12/5/1995	AHTD	WHITE	5	001748, 012154

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,798.0126	
Easting (M)	391,292.6222	
Elevation (M)*	97.863	
Northing (SFT)	288,050.6463	
Easting (SFT)	1,283,765.8780	
Elevation (SFT)*	321.072	

Convergence Angle	0	3	20.1231925
Scale Factor			0.999967896
Elevation Adjust. Factor			0.9999846423
Combined Adjust. Factor			0.9999525388

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	7	28.8803964
Longitude	92	5	43.9073988
Ellipsoid Height:			69.688
Grid Northing (Meters)			87,798.5261
Grid Easting (Meters)			391,292.7870

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	7	28.8637284
Longitude	92	5	43.9138896
Ellipsoid Height (M):	70.391		
Geoid Height (M):	-27.416		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 1.85 KM. (1.15 MI.) TO THE EL PASO FIRE DEPARTMENT AND THE STATION ON THE RIGHT. 22.90 METERS NORTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.28 METERS NORTHEAST OF THE CENTER OF HWY-5 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730004 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF EL PASO FIRE DEPT. BLDG.	19	9.12	29.9
MK # 2	SOUTHEAST CORNER OF EL PASO FIRE DEPT. BLDG.	63	24.13	79.2
MK # 3	NORTHWEST END OF METAL DRAIN PIPE	133	17.67	58.0

AZ Mark Station	730004A
Geodetic Azimuth	151 10 45.81173
Grid Azimuth	151 14 05.90557

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730004A	12/4/1995	AHTD	WHITE	5	001748, 012154

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,438.9137	
Easting (M)	391,489.7609	
Elevation (M)*	94.430	
Northing (SFT)	286,872.5027	
Easting (SFT)	1,284,412.6572	
Elevation (SFT)*	309.809	

Convergence Angle	0	3	15.5844959
Scale Factor			0.999968347
Elevation Adjust. Factor			0.9999851811
Combined Adjust. Factor			0.9999535285

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	7	17.2332912
Longitude	92	5	36.1076244
Ellipsoid Height:			66.260
Grid Northing (Meters)			87,439.4141
Grid Easting (Meters)			391,489.9250

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	35	7	17.2170480
Longitude	92	5	36.1140900
Ellipsoid Height (M):	66.966		
Geoid Height (M):	-27.411		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 1.45 KM. (0.90 MI.) TO THE STATION ON THE RIGHT NEAR A BASEBALL FIELD. 19.45 METERS NORTHWEST OF A GRAVEL DRIVEWAY, 10.90 METERS NORTHEAST OF THE CENTER OF HWY-5 AND 0.94 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730004A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER POST	144	12.38	40.6
MK # 2	NORTH END OF A METAL DRAIN PIPE	153	15.32	50.3
MK # 3	NONE			

AZ Mark Station	730004
Geodetic Azimuth	331 10 50.2992
Grid Azimuth	331 14 05.9056

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730005	12/5/1995	AHTD	WHITE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	90,607.5421	
Easting (M)	391,623.5700	
Elevation (M)*	107.013	
Northing (SFT)	297,268.2444	
Easting (SFT)	1,284,851.6626	
Elevation (SFT)*	351.092	

Convergence Angle	0	3	12.5772507
Scale Factor			0.999964473
Elevation Adjust. Factor			0.9999832065
Combined Adjust. Factor			0.9999476800

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	9	0.0436104
Longitude	92	5	30.9461064
Ellipsoid Height (M):	78.811		
Geoid Height (M):	-28.202		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 5.31 KM. (3.30 MI.) TO THE STATION ON THE RIGHT JUST NORTHWEST OF A CHURCH OF CHRIST. 30.20 METERS NORTH OF A GRAVEL DRIVEWAY, 14.10 METERS EAST OF THE CENTER OF HWY-5 AND 1.32 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730005 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WOODEN FENCE POST	153	10.50	34.4
MK # 2	NORTH END OF A METAL DRAIN PIPE	176	25.95	85.1
MK # 3	NONE			

AZ Mark Station	730005A
Geodetic Azimuth	169 00 37.9285
Grid Azimuth	169 03 50.4948

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730005A	12/5/1995	AHTD	WHITE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	90,144.8801	
Easting (M)	391,712.9660	
Elevation (M)*	99.597	
Northing (SFT)	295,750.3275	
Easting (SFT)	1,285,144.9560	
Elevation (SFT)*	326.761	

Convergence Angle	0	3	10.5121815
Scale Factor	0.999965024		
Elevation Adjust. Factor	0.9999843702		
Combined Adjust. Factor	0.9999493948		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	45.0328560
Longitude	92	5	27.3972624
Ellipsoid Height (M):	71.400		
Geoid Height (M):	-28.197		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 4.83 KM. (3.0 MI.) TO THE STATION ON THE LEFT. 14.93 METERS WEST OF THE CENTER OF HWY-5 AND 0.98 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730005A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN FENCE POST	178	6.30	20.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730005
Geodetic Azimuth	349 00 39.9716
Grid Azimuth	349 03 50.4948

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730006	12/5/1995	AHTD	WHITE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	95,245.6891	
Easting (M)	393,162.6920	
Elevation (M)*	126.567	
Northing (SFT)	312,485.2317	
Easting (SFT)	1,289,901.2653	
Elevation (SFT)*	415.245	

Convergence Angle	0	2	37.2735831
Scale Factor	0.999959245		
Elevation Adjust. Factor	0.9999801379		
Combined Adjust. Factor	0.9999393837		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	11	30.5943756
Longitude	92	4	30.2763684
Ellipsoid Height (M):	98.331		
Geoid Height (M):	-28.236		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY -5 FOR 10.71 KM. (6.65 MI.) TO THE STATION ON THE RIGHT. 36.30 METERS SOUTH OF THE CENTER OF "RED HILL ROAD", 15.15 METERS EAST OF THE CENTER OF HWY-5 AND 1.10 METERS WEST OF A WITNESS POST SET ALONG A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730006 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER FENCE POST	8	13.33	43.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730006A
Geodetic Azimuth	358 15 30.66029
Grid Azimuth	358 18 07.93599

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730006A	12/5/1995	AHTD	WHITE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	95,882.6281	
Easting (M)	393,143.8130	
Elevation (M)*	133.994	
Northing (SFT)	314,574.9224	
Easting (SFT)	1,289,839.3265	
Elevation (SFT)*	439.612	

Convergence Angle	0	2	37.7190460
Scale Factor	0.999958569		
Elevation Adjust. Factor	0.9999789724		
Combined Adjust. Factor	0.9999375423		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	11	51.2626308
Longitude	92	4	31.0419012
Ellipsoid Height (M):	105.753		
Geoid Height (M):	-28.241		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 11.35 KM. (7.05 MI.) TO THE STATION ON THE LEFT. 36.8 METERS SOUTH OF A FIELD ENTRANCE, 17.53 METERS WEST OF THE CENTER OF HWY-5 AND 1.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730006A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	269	1.75	5.7
MK # 2	CULVERT	4	33.30	109.3
MK # 3	NONE			

AZ Mark Station	730006
Geodetic Azimuth	178 15 30.2191
Grid Azimuth	178 18 07.9360

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730007	12/5/1995	AHTD	WHITE	5	001748,050067

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	98,519.2421	
Easting (M)	393,519.6270	
Elevation (M)*	183.113	
Northing (SFT)	323,225.2135	
Easting (SFT)	1,291,072.3096	
Elevation (SFT)*	600.763	

Convergence Angle	0	2	29.1177087
Scale Factor			0.999955873
Elevation Adjust. Factor			0.9999712644
Combined Adjust. Factor			0.9999271387

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	16.8299904
Longitude	92	4	16.2604092
Ellipsoid Height (M):	154.855		
Geoid Height (M):	-28.258		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA, NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 14.09 KM. (8.75 MI.) TO THE STATION ON THE LEFT. 15.4 METERS WEST OF THE CENTER OF HWY-5 AND 1.16 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730007 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	282	1.43	4.7
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730007A
Geodetic Azimuth	9 19 08.51297
Grid Azimuth	9 21 37.61889

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730007A	12/5/1995	AHTD	WHITE	5	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	99,227.4451	
Easting (M)	393,636.3670	
Elevation (M)*	196.525	
Northing (SFT)	325,548.7095	
Easting (SFT)	1,291,455.3141	
Elevation (SFT)*	644.766	

Convergence Angle	0	2	26.4430147
Scale Factor			0.999955178
Elevation Adjust. Factor			0.9999691598
Combined Adjust. Factor			0.9999243392

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	39.8139168
Longitude	92	4	11.6639184
Ellipsoid Height (M):	168.263		
Geoid Height (M):	-28.262		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 AND HWY-64 ABOUT 11.3 KM. EAST OF VILONIA AND NEAR THE SMALL TOWN OF EL PASO, GO NORTH ON HWY-5 FOR 14.81 KM. (9.20 MI.) TO THE STATION ON THE RIGHT. 11.0 METERS EAST OF THE CENTER OF HWY-5 AND 0.84 METERS WEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730007A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	20	6.75	22.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730007
Geodetic Azimuth	189 19 11.16415
Grid Azimuth	189 21 37.6189

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730008	12/5/1995	AHTD	WHITE	5	001748,050067

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	110,747.0291	
Easting (M)	392,632.2320	
Elevation (M)*	193.128	
Northing (SFT)	363,342.5446	
Easting (SFT)	1,288,160.9145	
Elevation (SFT)*	633.621	

Convergence Angle	0	2	49.7688367
Scale Factor			0.999945606
Elevation Adjust. Factor			0.9999696928
Combined Adjust. Factor			0.9999153005

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	53.5984464
Longitude	92	4	51.7495980
Ellipsoid Height (M):	164.816		
Geoid Height (M):	-28.312		

Location Description

THE STATION IS LOCATED IN ROSE BUD NEAR THE JUNCTION OF HWY-5 AND HWY-36. 62.4 METERS WEST OF THE EXTENDED CENTER OF HWY-5 NORTH, 33.5 METERS EAST OF THE CENTER OF HWY-5 SOUTH, 10.3 METERS SOUTH OF THE CENTER OF HWY-5 & 36 AND 0.59 METERS NORTH OF A WITNESS POST. JUST NORTH OF A GRAVEL LOT THAT IS USED FOR A CAR SALES LOT AT THIS TIME. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730008 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE CORNER POST	95	6.80	22.3
MK # 2	SOUTH END OF A CONCRETE HEADWALL	73	15.03	49.3
MK # 3	22" (0.56 M) SYCAMORE TREE	167	13.87	45.5

AZ Mark Station	730008A
Geodetic Azimuth	89 37 38.6685
Grid Azimuth	89 40 28.3819

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY USING USC&GS BENCH MARK "X 206 1962" WHICH IS ABOUT 84 FEET NORTHEAST OF THE POST OFFICE IN ROSE BUD.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730008A	12/5/1995	AHTD	WHITE	36	001748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	110,751.4551	
Easting (M)	393,411.3640	
Elevation (M)*	200.629	
Northing (SFT)	363,357.0656	
Easting (SFT)	1,290,717.1167	
Elevation (SFT)*	658.230	

Convergence Angle	0	2	31.8160827
Scale Factor	0.999945603		
Elevation Adjust. Factor	0.9999685158		
Combined Adjust. Factor	0.9999141205		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	53.7617784
Longitude	92	4	20.8975944
Ellipsoid Height (M):	172.320		
Geoid Height (M):	-28.309		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-5 NORTH AND HWY-36 IN ROSE BUD, GO EAST ON HWY-36 FOR 0.724 KM. (0.45 MI.) TO THE STATION ON THE LEFT NEAR A WOODEN FENCE. 11.95 METERS NORTH OF THE CENTER OF HWY-36 AND 4.35 METERS SOUTH OF A WITNESS POST SET NEXT TO THE WOODEN FENCE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730008A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER POST	290	32.15	105.5
MK # 2	WATER VALVE COVER	87	17.97	59.0
MK # 3	NONE			

AZ Mark Station	730008
Geodetic Azimuth	269 37 56.5104
Grid Azimuth	269 40 28.3819

Area Reference Monuments (used for Processing)

Ref Mon # 1	120009
Ref Mon # 2	430001
Ref Mon # 3	730001

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY USING USC&GS BENCH MARK "X 206 1962" WHICH IS ABOUT 84 FEET NORTHEAST OF THE POST OFFICE IN ROSE BUD.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730009-96	1/15/1997	AHTD	WHITE	16	050045

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,954.2901	
Easting (M)	423,208.5610	
Elevation (M)*	69.792	
Northing (SFT)	337,775.8668	
Easting (SFT)	1,388,476.7539	
Elevation (SFT)*	228.976	

Convergence Angle	0	8	54.3077407	
Scale Factor			0.999951749	
Elevation Adjust. Factor			0.9999890475	
Combined Adjust. Factor			0.9999407970	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	15	39.8479212	
Longitude	91	44	41.7863184	
Ellipsoid Height (M):	42.536			
Geoid Height (M):	-27.256			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67B, STATE HIGHWAY 36 (MAIN STREET) AND STATE HIGWAY 16 (WEST RACE STREET), LOCATED IN DOWNTOWN SEARCY, GO WEST ON STATE HIGWAY 16 (WEST RACE STREET) FOR 0.80 KM (0.50 MI) TO THE JUNCTION OF NORTH MAPLE STREET, GO RIGHT AND NORTH ON STATE HIGHWAY 16 (NORTH MAPLE STREET) FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF HOLMES DRIVE AND THE STATION ON THE LEFT. THE STATION IS 16.136 METERS NORTH OF THE CENTER OF HOLMES DRIVE, 15.506 METERS SOUTH OF THE CENTER OF A GRAVEL ENTRANCE TO" DAD'S AUTO SALES", 8.764 METERS WEST OF THE CENTER OF STATE HIGWAY 16 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "730009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	106	18.87	61.9
MK # 2	TELEPHONE JUNCTION BOX	256	33.12	108.7
MK # 3	COMBINATION POLE	3	27.60	90.5

AZ Mark Station	730009A
Geodetic Azimuth	180 30 22.14036
Grid Azimuth	180 21 27.83305

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	HEBEPORT
Ref Mon # 3	NEWSPORT

Comments

ELEVATION BY THREE WIRE LEVELING FROM TBM-907 ELEVATION = 71.574 METERS NAVD88 DATUM ON JOB 050032. THIS ELEVATION WAS RUN BY THREE WIRE LEVELING FROM NGS PT "H 8 1931" CREW S5113, ELEVATION = 80.529 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730009A-96	1/15/1997	AHTD	WHITE	16	050045

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	102,423.8321	
Easting (M)	423,205.2490	
Elevation (M)*	68.789	
Northing (SFT)	336,035.5225	
Easting (SFT)	1,388,465.8878	
Elevation (SFT)*	225.685	

Convergence Angle	0	8	54.1998650
Scale Factor	0.999952221		
Elevation Adjust. Factor	0.9999892049		
Combined Adjust. Factor	0.9999414264		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	15	22.6349100
Longitude	91	44	41.9717040
Ellipsoid Height (M):	41.534		
Geoid Height (M):	-27.255		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67B, STATE HIGHWAY 36 (MAIN STREET) AND STATE HIGWAY 16 (WEST RACE STREET), LOCATED IN DOWNTOWN SEARCY, GO WEST ON STATE HIGWAY 16 (WEST RACE STREET) FOR 0.80 KM (0.50 MI) TO THE JUNCTION OF NORTH MAPLE STREET, GO RIGHT AND NORTH ON STATE HIGHWAY 16 (NORTH MAPLE STREET) FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.60 METERS EAST OF THE CENTER 0F STATE HIGHWAY 16, 11.351 METERS NORTH OF A GRAVEL DRIVE AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730009A 1998" SET ON TOP OF AN IRON ROD 0.31 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	217	32.39	106.3
MK # 2	TELEPHONE JUNCTION BOX	294	22.07	72.4
MK # 3	COMBINATION POLE	202	18.88	62.0

AZ Mark Station	730009
Geodetic Azimuth	0 30 22.03334
Grid Azimuth	0 21 27.83305

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	HEBEPORT
Ref Mon # 3	NEWSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730010	3/3/1999	AHTD	WHITE	64	001848

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	84,742.3631	
Easting (M)	399,878.5680	
Elevation (M)*	77.917	
Northing (SFT)	278,025.5696	
Easting (SFT)	1,311,934.9352	
Elevation (SFT)*	255.633	

Convergence Angle	0	0	2.7899435
Scale Factor			0.999971833
Elevation Adjust. Factor			0.9999877724
Combined Adjust. Factor			0.9999596058

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	5	49.8443712	
Longitude	92	0	4.7945484	
Ellipsoid Height (M):	50.611			
Geoid Height (M):	-27.306			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO EAST ON U.S. HIGHWAY 64 FOR 9.85 KM (6.12 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.32 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64 AND 2.32 METERS NORTH OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED "730010 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN BRACE FENCE POST	251	7.10	23.3
MK # 2				
MK # 3				

AZ Mark Station	730010A
Geodetic Azimuth	275 21 56.21336
Grid Azimuth	275 21 59.07138

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	AHTD LR1
Ref Mon # 3	EARNHART HALE

Comments

LEVELS TO THE STATION WAS RUN BY CREW S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730010A	3/3/1999	AHTD	WHITE	64	001848

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	84,789.0821	
Easting (M)	399,381.2110	
Elevation (M)*	76.510	
Northing (SFT)	278,178.8469	
Easting (SFT)	1,310,303.1898	
Elevation (SFT)*	251.017	

Convergence Angle	0	0	14.2169749
Scale Factor	0.999971771		
Elevation Adjust. Factor	0.9999879932		
Combined Adjust. Factor	0.9999597646		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	51.3597444
Longitude	92	0	24.4320264
Ellipsoid Height (M):	49.199		
Geoid Height (M):	-27.311		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 5, LOCATED ABOUT 1.61 KM (1.00 MI) SOUTH OF EL PASO, GO EAST ON U.S. HIGHWAY 64 FOR 9.35 KM (5.81 MI) TO THE STATION ON THE LEFT. THE STATION IS 27.30 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 17.55 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 64 AND 1.00 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730010A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER FENCE POST	82	23.50	77.1
MK # 2	EAST END OF CMP	255	25.00	82.0
MK # 3	POWER POLE	273	21.60	70.9

AZ Mark Station	730010
Geodetic Azimuth	95 21 44.922457
Grid Azimuth	95 21 59.071383

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	AHTD LR1
Ref Mon # 3	EARNHART HALE

Comments

LEVELS TO THE STATION WAS RUN BY CREW S5103

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730012	10/21/1999	AHTD	WHITE	36	050044

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	100,726.4011	
Easting (M)	425,819.0790	
Elevation (M)*	70.056	
Northing (SFT)	330,466.5343	
Easting (SFT)	1,397,041.4284	
Elevation (SFT)*	229.842	

Convergence Angle	0	9	54.2590284
Scale Factor			0.999953781
Elevation Adjust. Factor			0.9999890061
Combined Adjust. Factor			0.9999427876

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	14	27.3214644
Longitude	91	42	58.7593764
Ellipsoid Height (M):	42.809		
Geoid Height (M):	-27.247		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67, U.S. HIGWHAY 167 AND STATE HIGWAY 36, LOCATED ON THE EAST SIDE OF SEARCY, GO WEST ON STATE HIGHWAY 36 FOR 1.45 KM (0.90 MI) TO THE WEST END OF A BRIDGE AND THE STATION ON THE RIGHT. THE STATION IS 14.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 36 AND 11.60 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730012 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.220 METERS. ELEVATION ON THIS POINT WAS ESTABLISHED BY THREE WIRE LEVELING BY CREW S5102 FROM AN AHTD BENCH MARK DISK SET IN BRIDGE # 6601.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AHTD BENCH MARK DISK	103	13.70	44.9
MK # 2	PUNCH IN TOP OF METAL GUARD RAIL POST	126	4.00	13.1
MK # 3	PUNCH IN TOP OF METAL GUARD RAIL POST	229	3.20	10.5

AZ Mark Station	720012A
Geodetic Azimuth	102 53 44.70257
Grid Azimuth	102 43 50.37801

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	730009
Ref Mon # 3	730011

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730012A	10/21/1999	AHTD	WHITE	36	050044

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	100,573.2051	
Easting (M)	426,497.1690	
Elevation (M)*	68.451	
Northing (SFT)	329,963.9237	
Easting (SFT)	1,399,266.1286	
Elevation (SFT)*	224.577	

Convergence Angle	0	10	9.8556188
Scale Factor	0.999953927		
Elevation Adjust. Factor	0.9999892579		
Combined Adjust. Factor	0.9999431854		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	14	22.2860472
Longitude	91	42	31.9564656
Ellipsoid Height (M):	41.244		
Geoid Height (M):	-27.246		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67, U.S. HIGHWAY 167 AND STATE HIGHWAY 36, LOCATED ON THE EAST SIDE OF SEARCY, GO WEST ON STATE HIGHWAY 36 FOR 0.75 KM (0.47 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.30 METERS NORTH OF THE CENTER OF STATE HIGHWAY 36 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730012A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 695.220 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS PIPELINE WARNING SIGN	302	5.04	16.5
MK # 2	BURIED CABLE WARNING SIGN	93	3.97	13.0
MK # 3	NONE			

AZ Mark Station	730012
Geodetic Azimuth	282 54 00.16802
Grid Azimuth	282 43 50.37801

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	730009
Ref Mon # 3	730011

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730013	6/28/2000	AHTD	WHITE	385	050010

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	99,572.6805	
Easting (M)	430,059.7758	
Elevation (M)*	68.097	
Northing (SFT)	326,681.3693	
Easting (SFT)	1,410,954.4478	
Elevation (SFT)*	223.415	

Convergence Angle	0	11	31.7743337
Scale Factor	0.999954891		
Elevation Adjust. Factor	0.9999893135		
Combined Adjust. Factor	0.9999442050		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	49.4543964
Longitude	91	40	11.1782604
Ellipsoid Height (M):	40.849		
Geoid Height (M):	-27.248		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 385, STATE HIGHWAY 36 AND NORTHEAST FRIST STREET, LOCATED IN KENSETT, GO SOUTHWEST ON STATE HIGHWAY 385 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.35 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 385, 6.07 METERS SOUTHEAST OF SOUTHEAST RAIL AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730013 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.066 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USG&GS BENCH MARK M 8.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730013A
Geodetic Azimuth	46 49 31.465718
Grid Azimuth	46 37 59.650936

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	SEARPORT

Comments

ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT M 8ELEV.
TBM SQ NW CORNER BRIDGE OVER BLACK CREEK = 213.838 FEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730013A	6/28/2000	AHTD	WHITE	36	050010

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	99,956.5512	
Easting (M)	430,466.1797	
Elevation (M)*	68.767	
Northing (SFT)	327,940.7851	
Easting (SFT)	1,412,287.7912	
Elevation (SFT)*	225.613	

Convergence Angle	0	11	41.1569844
Scale Factor			0.999954523
Elevation Adjust. Factor			0.9999892083
Combined Adjust. Factor			0.9999437318

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	14	1.8664116
Longitude	91	39	55.0540728
Ellipsoid Height (M):	41.515		
Geoid Height (M):	-27.248		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 385, STATE HIGHWAY 36 AND NORTHEAST FRIST STREET, LOCATED IN KENSETT, GO NORTHEAST ON NORTHEAST FRIST STREET FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.20 METERS NORTHEAST OF THE CENTER OF EAST WEST POINT STREET, 11.40 METERS NORTHWEST OF NORTHEAST FRIST STREET, 4.98 METERS SOUTHEAST OF SOUTHEAST RAIL AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730013A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 559.066 METERS,

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730013
Geodetic Azimuth	226 49 40.76761
Grid Azimuth	226 37 59.65094

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	SEARPORT

Comments

ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT M 8

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730014	11/14/2000	AHTD	WHITE	36	50100, 050189, 050198,05028

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	101,375.9894	0.0020
Easting (M)	420,323.1923	0.0020
Elevation (M)*	90.035	
Northing (SFT)	332,597.7252	
Easting (SFT)	1,379,010.3401	
Elevation (SFT)*	295.390	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	14	48.8596812	
Longitude	91	46	36.0830208	
Ellipsoid Height (M):	62.766			0.0090
Geoid Height (M):	-27.261			

Convergence Angle	0	7	47.7985892
Scale Factor	0.999953165		
Elevation Adjust. Factor	0.9999858708		
Combined Adjust. Factor	0.9999390364		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 36 AND U.S. HIGHWAY 67B, LOCATED IN SEARCY GO WEST ON STATE HIGHWAY 36 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS WEST OF THE CENTER OF QUARTER HORSE LANE, 5.90 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANE OF STATE HIGHWAY 36 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730014 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.764 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK "G 8".

SUPERCEDED CONTROL

Horizontal Datum			
Latitude	35	14	48.8597136
Longitude	91	46	36.0838488
Ellipsoid Height:	62.784		
Grid Northing (Meters)	101,375.9904		
Grid Easting (Meters)	420,323.1714		

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER COVER	113	2.75	9.0
MK # 2	COMBINATION POLE	235	8.70	28.5
MK # 3	CENTER OF A MAN HOLE COVER	261	16.00	52.5

AZ Mark Station	730014A
Geodetic Azimuth	82 22 04.719619
Grid Azimuth	82 14 16.869182

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	NEWSPORT

Comments

3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206. ELEV WAS UPDATED 10/13/14 DURING JOB 050280 FROM 295.424 TO 295.3897. NEW ELEV WAS RAN FROM GPS 730014A AND NGS BM H 206, J 206, K 206, P 206, Q 206.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730014A	11/14/2000	AHTD	WHITE	36	050100, 050189,050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	101,451.1816
Easting (M)	420,874.8036
Elevation (M)*	88.026
Northing (SFT)	332,844.4183
Easting (SFT)	1,380,820.0848
Elevation (SFT)*	288.798

Convergence Angle	0	8	0.4995453
Scale Factor			0.999953097
Elevation Adjust. Factor			0.9999861861
Combined Adjust. Factor			0.9999392837

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	35	14	51.2585160	
Longitude	91	46	14.2562892	
Ellipsoid Height (M):	60.767			
Geoid Height (M):	-27.259			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 36 AND U.S. HIGHWAY 67B, LOCATED IN SEARCY GO WEST ON STATE HIGHWAY 36 FOR 3.25 KM (2.02 MI) TO THE BETHEL MISSSIONARY BAPTIST CHURCH AND THE STATION ON THE RIGHT. THE STATION IS 10.20 METERS EAST OF THE CENTER OF THE WEST ENRTANCE TO THE CHURCH, 8.80 METERS NORTH OF THE WEST BOUND LANE OF STATE HIGWAY 36 AND 1.83 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730014A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 556.764 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK "G 8".

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	47	10.10	33.1
MK # 2	SOUTH END OF BRICH SIGN TO CHURCH	90	7.38	24.2
MK # 3	EAST END OF CMP	246	6.00	19.7

AZ Mark Station	730014
Geodetic Azimuth	262 22 17.31643
Grid Azimuth	262 14 16.86918

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	SEARPORT
Ref Mon # 3	NEWSPORT

Comments

3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730015	11/15/2000	AHTD	WHITE	67	0087,012154,050263Mobile L

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,783.4042	
Easting (M)	407,865.9965	
Elevation (M)*	73.930	

Northing (SFT)	268,317.7186	
Easting (SFT)	1,338,140.3569	
Elevation (SFT)*	242.552	

Convergence Angle	0	3	0.6645105
Scale Factor			0.999975872
Elevation Adjust. Factor			0.9999883981
Combined Adjust. Factor			0.9999642704

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	4	13.7137044
Longitude	91	54	49.5269244
Ellipsoid Height:			46.740
Grid Northing (Meters)			81,783.4016
Grid Easting (Meters)			407,865.9748

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	4	13.7137872
Longitude	91	54	49.5260676
Ellipsoid Height (M):	46.605		
Geoid Height (M):	-27.313		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTHEAST ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 13.00 METERS SOUTHEAST OF THE SOUTH BOUND LANE, 12.75 METERS NORTHWEST OF THE NORTH BOUND LANE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730015 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.888 METERS.

NOTE: 730015 AND 730015A CAN BE USED FOR JOB # 050096

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CHISLED"X" IN CONCRETE DROP INLET	49	4.50	14.8
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730015A
Geodetic Azimuth	51 15 26.329317
Grid Azimuth	51 12 25.592971

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	730010

Comments

ELEVATION BY 3WIRE FROM NGS PT 18 BLS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730015A	11/15/2000	AHTD	WHITE	67	050096, 050087

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	82,186.7880	
Easting (M)	408,367.8139	
Elevation (M)*	75.679	
Northing (SFT)	269,641.1536	
Easting (SFT)	1,339,786.7361	
Elevation (SFT)*	248.289	

Convergence Angle	0	3	12.1987703
Scale Factor	0.999975310		
Elevation Adjust. Factor	0.9999881237		
Combined Adjust. Factor	0.9999634340		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	26.7889548
Longitude	91	54	29.7043164
Ellipsoid Height (M):	48.478		
Geoid Height (M):	-27.224		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTH ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.89 KM (0.55 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 15.03 METERS SOUTHEAST OF THE CENTER OF THE SOUTH BOUND LANE, 10.84 METERS NORTHWEST OF THE NORTH BOUND LAND AND 1.35 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730015A 2000" SET ON TOP OF AN IRON ROD 0.82 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 643.888 METERS.

NOTE: 730015 AND 730015A CAN BE USED FOR JOB # 050096.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CHISLED "X" IN CONCRETE DROD INLET	338	2.20	7.2
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730015
Geodetic Azimuth	231 15 37.71958
Grid Azimuth	231 12 25.59297

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	730010

Comments

ELEVATION BY 3WIRE FROM NGS PT 18 BLS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730016	11/15/2000	AHTD	WHITE	64	0087, 012154Mobie LiDAR-C

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	83,202.2532	
Easting (M)	403,391.2483	
Elevation (M)*	80.325	
Northing (SFT)	272,972.7257	
Easting (SFT)	1,323,459.4538	
Elevation (SFT)*	263.532	

Convergence Angle	0	1	17.9017835
Scale Factor			0.999973907
Elevation Adjust. Factor			0.9999873946
Combined Adjust. Factor			0.9999613019

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	4	59.8467396
Longitude	91	57	46.1249352
Ellipsoid Height (M):	53.090		
Geoid Height (M):	-27.263		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 FOR 5.70 KM (3.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 38.90 METERS SOUTH OF THE CENTER OF VERNON HARVEY ROAD, 26.65 METERS SOUTH-SOUTHWEST OF THE SOUTH END OF A CONCRETE HEADWALL, 13.30 METERS WEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.21 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730016 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 543.841 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730016A
Geodetic Azimuth	3 55 41.180738
Grid Azimuth	3 54 23.273727

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	730010

Comments

UPDATED ELEVATION IN MAY 2012. PREVIOUS ELEVATION WAS 263.6251'. ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730016A	11/15/2000	AHTD	WHITE	64	0087, 012154Mobie LiDAR-C

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	83,744.8090	
Easting (M)	403,428.2975	
Elevation (M)*	79.605	
Northing (SFT)	274,752.7609	
Easting (SFT)	1,323,581.0060	
Elevation (SFT)*	261.172	

Convergence Angle	0	1	18.7576144
Scale Factor			0.999973170
Elevation Adjust. Factor			0.9999875075
Combined Adjust. Factor			0.9999606778

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	5	17.4523272
Longitude	91	57	44.6541804
Ellipsoid Height (M):	52.370		
Geoid Height (M):	-27.268		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 FOR 6.23 KM (3.87 MI) TO THE STATION ON THE RIGHT. THE STATION IS 12.90 METERS WEST OF THE CENTER OF U.S. HIGHWAY 64 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "730016A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 543.841 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	169	23.25	76.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	730016
Geodetic Azimuth	183 55 42.02613
Grid Azimuth	183 54 23.27373

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	AHTD LR 1
Ref Mon # 3	730010

Comments

UPDATED ELEVATION IN MAY 2012. PREVIOUS ELEVATION WAS 261.2268'. ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730017	12/16/2002	AHTD	WHITE	67	050114

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	93,716.6671	
Easting (M)	421,689.6460	
Elevation (M)*		
Northing (SFT)	307,468.7653	
Easting (SFT)	1,383,493.4469	
Elevation (SFT)*		

Convergence Angle	0	8	18.8250944
Scale Factor	0.999960936		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	10	40.2109680
Longitude	91	45	42.7636332
Ellipsoid Height (M):	40.965		
Geoid Height (M):	-27.246		

Location Description

TO REACH THE STQATION FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 67B (EXIT 42), GO SOUTH ON HIGHWAY 67 FOR 2.5 MILES TO THE STATION ON THE LEFT. THE STATION IS 4.20 METERS NORTHEAST OF THE NORTHEAST CORNER OF THE BRIDGE ON THE SOUTH BOUND LANES. THE STATION IS 0.30 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "730017 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NE CORNER OF BRIDGE SOUTH BOUND LANES		4.20	13.8
MK # 2	NW CORNER OF BRIDGE NORTH BOUND LANES		11.80	38.7
MK # 3				

AZ Mark Station	730017A
Geodetic Azimuth	222 12 50
Grid Azimuth	222 04 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	ROUCH

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730017A	12/16/2002	AHTD	WHITE	67	050114

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	93,176.2881	
Easting (M)	421,201.7970	
Elevation (M)*		
Northing (SFT)	305,695.8719	
Easting (SFT)	1,381,892.8957	
Elevation (SFT)*		

Convergence Angle	0	8	7.5760592
Scale Factor	0.999961537		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	10	22.7135064	
Longitude	91	46	2.0952228	
Ellipsoid Height (M):	41.815			
Geoid Height (M):	-27.246			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 367 AND STATE HIGHWAY 67B (EXIT 42) GO SOUTH ON HIGHWAY 67 2.90 MILES TO THE STATION ON THE LEFT. THE STATION IS 0.30 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64 mm CAP STAMPED "730017A 2002" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EDGE OF CONCRETE ROAD	314	11.50	37.7
MK # 2	EDGE OF CONCRETE ROAD	134	6.80	22.3
MK # 3	DROP iNLET	310	19.80	65.0

AZ Mark Station	730017
Geodetic Azimuth	42 12 39
Grid Azimuth	42 04 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	ROUCH

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730018	11/10/2004	AHTD	WHITE	36	050163

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	110,912.5991	
Easting (M)	390,483.3030	
Elevation (M)*	195.129	
Northing (SFT)	363,885.7522	
Easting (SFT)	1,281,110.6366	
Elevation (SFT)*	640.186	

Convergence Angle	0	3	39.2886936
Scale Factor	0.999945494		
Elevation Adjust. Factor	0.9999693788		
Combined Adjust. Factor	0.9999148745		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	58.9053900
Longitude	92	6	16.8500124
Ellipsoid Height (M):	167.643		
Geoid Height (M):	-27.486		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 ìAND STATE HIGHWAY 36, WEST OF ROSE BUD, GO WEST ON HIGHWAY 36 ìFOR 0.40 MILES TO THE STATION ON THE RIGHT, 8 METERS NORTH OF ìCENTERLINE OF OLD SPRINGS ROAD, IN FRONT OF ST. MARY'S CHURCH, ìAND NORTHWEST 14.30 METERS OF THE CENTERLINE OF THE HIGHWAY AND ìSOUTHEAST 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A ìSTANDARD 64mm CAP STAMPED "730018 2004" ON TOP OF A 1.22 METER ìIRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	16" CMP	134	5.15	16.9
MK # 2	POWER POLE WITH LIGHT	64	15.80	51.8
MK # 3				

AZ Mark Station	730018A
Geodetic Azimuth	56 32 55
Grid Azimuth	56 36 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC
Ref Mon # 2	BUTLER
Ref Mon # 3	EARNHART - HALE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730018A	11/10/2004	AHTD	WHITE	36	050163

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	111,205.4731	
Easting (M)	390,927.6280	
Elevation (M)*	198.683	
Northing (SFT)	364,846.6230	
Easting (SFT)	1,282,568.3929	
Elevation (SFT)*	651.846	

Convergence Angle	0	3	29.0571731
Scale Factor	0.999945294		
Elevation Adjust. Factor	0.9999688211		
Combined Adjust. Factor	0.9999141168		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	20	8.4240528
Longitude	92	5	59.2670328
Ellipsoid Height (M):	171.203		
Geoid Height (M):	-27.480		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 ìAND STATE HIGHWAY 36, WEST OF ROSE BUD, GO WEST ON HIGHWAY 36 ìFOR 0.10 MILES TO THE STATION ON THE RIGHT, NORTHWEST 11.15 ìMETERS OF THE CENTERLINE OF THE HIGHWAY AND SOUTHEAST 1.15 METERSì OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP ìSTAMPED "730018A 2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN ìFLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	AHTD CONCRETE RIGHT MARKER	69	16.85	55.3
MK # 2	WOOD FENCE POST	245	24.70	81.0
MK # 3				

AZ Mark Station	730018
Geodetic Azimuth	236 33 05
Grid Azimuth	236 36 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	LROC
Ref Mon # 2	BUTLER
Ref Mon # 3	EARNHART - HALE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730019	10/13/2004	AHTD	WHITE	16	050162,050188,050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,678.8361	
Easting (M)	421,570.1670	
Elevation (M)*	122.959	
Northing (SFT)	346,714.6481	
Easting (SFT)	1,383,101.4562	
Elevation (SFT)*	403.408	

Convergence Angle	0	8	16.7398246
Scale Factor			0.999949435
Elevation Adjust. Factor			0.9999807041
Combined Adjust. Factor			0.9999301401

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	8.3918832
Longitude	91	45	46.3471920
Ellipsoid Height (M):	95.619		
Geoid Height (M):	-27.267		

Location Description

To reach the station from the junction of state highway 16 and state highway 310 west, north of Searcy, go east on highway 16 for 5.10 miles to the station on the left. 13.85 meters west of the center of the highway and 0.50 meters east of a witness post. The station mark is a standard 64mm cap stamped "730019 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Fence corner post	122	17.30	56.8
MK # 2	Telephone riser	124	18.50	60.7
MK # 3	Power pole	312	25.85	84.8

AZ Mark Station	730019A
Geodetic Azimuth	304 47 16
Grid Azimuth	304 38 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	Butler
Ref Mon # 2	LROC
Ref Mon # 3	480016

Comments

3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730019A	10/13/2004	AHTD	WHITE	16	050162,050188,050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	106,106.5931	
Easting (M)	420,951.2490	
Elevation (M)*	118.742	
Northing (SFT)	348,118.0475	
Easting (SFT)	1,381,070.8894	
Elevation (SFT)*	389.572	

Convergence Angle	0	8	2.5098450
Scale Factor	0.999949088		
Elevation Adjust. Factor	0.9999813659		
Combined Adjust. Factor	0.9999304548		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	22.3201968
Longitude	91	46	10.8015672
Ellipsoid Height (M):	91.393		
Geoid Height (M):	-27.271		

Location Description

To reach the station from the junction of state highways 16 and 31 west just north of Searcy, go east on highway 16 for 4.70 miles to the station on the right. 20.40 meters southwest of an asphalt drive, 22.80 meters southwest of the center of the highway and 0.50 meters northeast of a witness post. The station mark is a standard 64mm cap stamped "730019A 2004" set on top of an iron rod 1.22 meters long and driven flush with the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Gate post	333	17.80	58.4
MK # 2	CMP	003	15.70	51.5
MK # 3				

AZ Mark Station	730019
Geodetic Azimuth	124 47 02
Grid Azimuth	124 38 59

Area Reference Monuments (used for Processing)

Ref Mon # 1	Butler
Ref Mon # 2	LROC
Ref Mon # 3	480016

Comments

3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730020	5/24/2007	AHTD	White	16	050188,050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	110,367.1211	
Easting (M)	419,228.6180	
Elevation (M)*	67.629	
Northing (SFT)	362,096.1298	
Easting (SFT)	1,375,419.2242	
Elevation (SFT)*	221.879	

Convergence Angle	0	7	23.0483284
Scale Factor			0.999945882
Elevation Adjust. Factor			0.9999893869
Combined Adjust. Factor			0.9999352695

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	40.6987716
Longitude	91	47	18.6166140
Ellipsoid Height (M):	40.274		
Geoid Height (M):	-27.302		

Location Description

To reach the station from the junction of highways 310 and 16 south of Pangburn, go east on hwy-16 for 1.80 miles to the station on the right. 112.4 feet southwest of the center of hwy-16 65.0 feet north of the center of a gravel drive and 1.50 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "730020 2007"set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Six foot culvert	169	15.42	50.6
MK # 2				
MK # 3				

AZ Mark Station	730020A
Geodetic Azimuth	4 17 20
Grid Azimuth	4 09 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	Hebeport
Ref Mon # 2	Batesville CORS ARP
Ref Mon # 3	730019, 730019A

Comments

3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730020A	5/24/2007	AHTD	White	16	050188,050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	110,908.2671	
Easting (M)	419,268.0330	
Elevation (M)*	71.249	
Northing (SFT)	363,871.5396	
Easting (SFT)	1,375,548.5383	
Elevation (SFT)*	233.756	

Convergence Angle	0	7	23.9833274
Scale Factor	0.999945507		
Elevation Adjust. Factor	0.9999888189		
Combined Adjust. Factor	0.9999343265		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	19	58.2560580
Longitude	91	47	17.0098080
Ellipsoid Height (M):	43.893		
Geoid Height (M):	-27.303		

Location Description

To reach the station from the junction of highways 310 and 16 south of Pangburn, go east on hwy-16 for 1.45 miles to the station on the left. 35 feet east of the center of hwy-16 and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730020A 2007"set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	162	23.32	76.5
MK # 2	Fence corner	355	34.75	114.0
MK # 3				

AZ Mark Station	730020
Geodetic Azimuth	184 17 21
Grid Azimuth	184 09 57

Area Reference Monuments (used for Processing)

Ref Mon # 1	Hebeport
Ref Mon # 2	Batesville CORS ARP
Ref Mon # 3	730019, 730019A

Comments

3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730021	5/24/2007	AHTD	WHITE	16	050188,050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	116,235.5250	
Easting (M)	417,550.1150	
Elevation (M)*	97.087	
Northing (SFT)	381,349.3849	
Easting (SFT)	1,369,912.3356	
Elevation (SFT)*	318.526	

Convergence Angle	0	6	44.6391468
Scale Factor	0.999942199		
Elevation Adjust. Factor	0.9999847641		
Combined Adjust. Factor	0.9999269640		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	22	51.2383620
Longitude	91	48	24.6232116
Ellipsoid Height (M):	69.728		
Geoid Height (M):	-27.315		

Location Description

To reach the station from the junction of highways 110 and 16 in Pangburn, go east on hwy-16 for 3.75 miles to the station on the left 31.5 feet east of the center of hwy-16, 59.7 feet north of the center of a gravel drive and 1.50 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730021 2007"set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Water meter	261	20.08	65.9
MK # 2				
MK # 3				

AZ Mark Station	730021A
Geodetic Azimuth	182 04 45
Grid Azimuth	181 58 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	Hebeport
Ref Mon # 2	Batesville CORS ARP
Ref Mon # 3	730019, 730019A

Comments

3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730021A	5/24/2007	AHTD	WHITE	16	050188,050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	115,842.1761	
Easting (M)	417,536.6070	
Elevation (M)*	96.910	
Northing (SFT)	380,058.8728	
Easting (SFT)	1,369,868.0181	
Elevation (SFT)*	317.946	

Convergence Angle	0	6	44.3099286
Scale Factor	0.999942419		
Elevation Adjust. Factor	0.9999847919		
Combined Adjust. Factor	0.9999272118		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	22	38.4752136	
Longitude	91	48	25.1889768	
Ellipsoid Height (M):	69.580			
Geoid Height (M):	-27.316			

Location Description

To reach the station from the junction of highways 110 and 16 in Pangburn, go east on hwy-16 for 4.0 miles to the station on the right 43.6 feet west of the center of hwy-16, 31.8 feet south of the center of a gravel drive and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "730021A 2007"set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	End of a fence	110	4.26	14.0
MK # 2	Water meter	140	3.72	12.2
MK # 3	South gate post	289	18.60	61.0

AZ Mark Station	730021
Geodetic Azimuth	2 04 45
Grid Azimuth	1 58 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	Hebeport
Ref Mon # 2	Batesville CORS ARP
Ref Mon # 3	730019, 730019A

Comments

3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730022	5/24/2007	AHTD	WHITE	16	050188,050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	117,921.5311	
Easting (M)	416,675.5490	
Elevation (M)*	100.474	
Northing (SFT)	386,880.8900	
Easting (SFT)	1,367,043.0303	
Elevation (SFT)*	329.640	

Convergence Angle	0	6	24.5474911
Scale Factor	0.999941297		
Elevation Adjust. Factor	0.9999842325		
Combined Adjust. Factor	0.9999255305		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	23	46.0027896	
Longitude	91	48	59.1509412	
Ellipsoid Height (M):	73.117			
Geoid Height (M):	-27.317			

Location Description

To reach the station from the junction of highways 110 and 16 in Pangburn, go east on hwy-16 for 2.55 miles to the station on the left, 28.5 feet north of the center of hwy-16, 82.2 feet northwest of the center of a gravel drive and 1.50 feet south of a witness post. The station mark is a 2 1/2 inch cap stamped "730022 2007"set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	98	15.70	51.5
MK # 2	Light pole with guy	345	28.77	94.4
MK # 3				

AZ Mark Station	730022A
Geodetic Azimuth	298 40 52
Grid Azimuth	298 34 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	Hebeport
Ref Mon # 2	Batesville CORS ARP
Ref Mon # 3	730019, 730019A

Comments

3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730022A	5/24/2007	AHTD	WHITE	16	050188,050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	118,177.5073	0.0050
Easting (M)	416,205.5739	0.0050
Elevation (M)*	101.531	
Northing (SFT)	387,720.7052	
Easting (SFT)	1,365,501.1204	
Elevation (SFT)*	333.105	

Convergence Angle	0	6	13.7203205
Scale Factor			0.999941166
Elevation Adjust. Factor			0.9999840668
Combined Adjust. Factor			0.9999252337

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	23	54.3369588
Longitude	91	49	17.7579048
Ellipsoid Height:			74.180
Grid Northing (Meters)			118,177.5021
Grid Easting (Meters)			416,205.5650

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	23	54.3371280	
Longitude	91	49	17.7575520	
Ellipsoid Height (M):			74.213	0.0000
Geoid Height (M):			-27.318	

Location Description

To reach the station from the junction of highways 110 and 16 in Pangburn, go east on hwy-16 for 2.2 miles to the station on the right, 25.3 feet southwest of the center of hwy-16 and 1.50 feet northeast of a witness post. The station mark is a 2 1/2 inch cap stamped "730022A 2007"set on top of a 5/8 inch by 4 foot long rebar and is 0.30 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Northeast corner of metal building	150	16.28	53.4
MK # 2	Combination pole with guy	295	16.22	53.2
MK # 3				

AZ Mark Station	730022
Geodetic Azimuth	118 40 42
Grid Azimuth	118 34 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	Hebeport
Ref Mon # 2	Batesville CORS ARP
Ref Mon # 3	730019, 730019A

Comments

3-wire elevations ran from 2nd order NGS marks E 206 & F 206 by crew S5101 in July 07.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730023	10/28/2009	AHTD	White	267	050189

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	94,284.1711	
Easting (M)	417,009.9470	
Elevation (M)*	77.017	
Northing (SFT)	309,330.6514	
Easting (SFT)	1,368,140.1344	
Elevation (SFT)*	252.680	

Convergence Angle	0	6	31.2249972
Scale Factor	0.999960300		
Elevation Adjust. Factor	0.9999879137		
Combined Adjust. Factor	0.9999482141		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	58.9541340
Longitude	91	48	47.6755740
Ellipsoid Height (M):	49.760		
Geoid Height (M):	-27.259		

Location Description

To reach the station from the junction of highways 267 and 13 on the southwest side of Searcy go south on hwy-267 for 0.15 miles to the station on the right. 33.0 feet north of the center of hwy-267, 171.0 feet east of the center of "Coppers Spring Road" and 89.4 feet west of the center of a driveway. The station mark is a 2 1/2 inch cap set on top of a 5/8 inch by 4 foot long rebar and stamped "730023 2009" and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Telephone box	52	20.00	65.6
MK # 2	Power pole	129	26.50	86.9
MK # 3	36 inch Oak tree	253	45.00	147.6

AZ Mark Station	730023A
Geodetic Azimuth	240 14 36
Grid Azimuth	240 08 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	ARLR

Comments

3 Wire Levels ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730023A	10/28/2009	AHTD	White	267	050189

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	94,028.0711
Easting (M)	416,563.9480
Elevation (M)*	84.841
Northing (SFT)	308,490.4299
Easting (SFT)	1,366,676.8861
Elevation (SFT)*	278.350

Convergence Angle	0	6	20.9562641
Scale Factor			0.999960580
Elevation Adjust. Factor			0.9999866858
Combined Adjust. Factor			0.9999472663

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	10	50.6707644
Longitude	91	49	5.3225040
Ellipsoid Height (M):	57.580		
Geoid Height (M):	-27.260		

Location Description

To reach the station from the junction of highways 267 and 13 on the southwest side of Searcy go south on hwy-267 for 0.35 miles to the station on the left. 33.7 feet southwest of the center of hwy-267, 8.20 feet northeast of the center of a barbed wire gap. The station mark is a 2 1/2 inch cap stamped "730023A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	235	24.00	78.7
MK # 2	Combination pole w/tel box	63	35.00	114.8
MK # 3				

AZ Mark Station	730023
Geodetic Azimuth	60 14 26
Grid Azimuth	60 08 05

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport G8
Ref Mon # 3	ARLR

Comments

3 Wire Levels ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730024	11/2/2009	AHTD	White	NA	050189

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	97,262.6821	
Easting (M)	418,048.7860	
Elevation (M)*	110.552	
Northing (SFT)	319,102.6495	
Easting (SFT)	1,371,548.3921	
Elevation (SFT)*	362.703	

Convergence Angle	0	6	55.2559162
Scale Factor	0.999957153		
Elevation Adjust. Factor	0.9999826511		
Combined Adjust. Factor	0.9999398048		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	12	35.5410000
Longitude	91	48	6.3781776
Ellipsoid Height (M):	83.291		
Geoid Height (M):	-27.261		

Location Description

To reach the station from the us 167 and state highway 36 in Searcy go west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go 2.30 miles to Honey Hill Loop on the left, turn left and go 0.70 miles on Honey Hill Loop to the station on the right at the top of the second hill. 21.6 feet west of the center of the road, 85.2 feet south of the center of a gravel drive and 43.7 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730024 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Water valve	55	20.36	66.8
MK # 2	Combination pole	357	34.44	113.0
MK # 3	Water meter	275	4.75	15.6

AZ Mark Station	730024A
Geodetic Azimuth	2 09 59
Grid Azimuth	2 03 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARBT
Ref Mon # 3	ARLR

Comments

3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730024A	11/2/2009	AHTD	White	NA	050189

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	97,600.2032	
Easting (M)	418,060.8740	
Elevation (M)*	107.963	
Northing (SFT)	320,210.0000	
Easting (SFT)	1,371,588.0508	
Elevation (SFT)*	354.208	

Convergence Angle	0	6	55.5496731
Scale Factor	0.999956809		
Elevation Adjust. Factor	0.9999830574		
Combined Adjust. Factor	0.9999398671		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	12	46.4927688
Longitude	91	48	5.8733532
Ellipsoid Height (M):	80.692		
Geoid Height (M):	-27.262		

Location Description

To reach the station from the us 167 and state highway 36 in Searcy go west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go 2.30 miles to Honey Hill Loop on the left, turn left and go 0.50 miles on Honey Hill Loop to the station on the left at the top of the first hill. 10.00 feet east of the center of the road, 91.00 feet north of the center of a gravel drive, 139 feet south of the center of a gravel drive and 13.6 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730024A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Fence corner	167	23.80	78.1
MK # 2	Telephone box	201	23.22	76.2
MK # 3	Power pole	229	26.10	85.6

AZ Mark Station	730024
Geodetic Azimuth	182 09 59
Grid Azimuth	182 03 04

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARBT
Ref Mon # 3	ARLR

Comments

3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730025	11/2/2009	AHTD	White	NA	050189

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	98,928.3621	
Easting (M)	419,233.5290	
Elevation (M)*	112.969	
Northing (SFT)	324,567.4680	
Easting (SFT)	1,375,435.3364	
Elevation (SFT)*	370.632	

Convergence Angle	0	7	22.5959421
Scale Factor	0.999955488		
Elevation Adjust. Factor	0.9999822718		
Combined Adjust. Factor	0.9999377606		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	29.5123476
Longitude	91	47	19.3940448
Ellipsoid Height (M):	85.701		
Geoid Height (M):	-27.259		

Location Description

To reach the station from the junction of US highway 167 and state highway 36 in Searcy go south and west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go west and then north for 1.60 miles to "Booth Road" on the right. Turn right on Booth road and go 0.30 miles to the station on the right at the southwest corner of the intersection of Booth road and Casey lane. 24.60 feet west of the center of Casey ln., 19.30 feet north of the center of Booth road and 43.0 feet south of a witness post that is across Booth road. The station mark is a 2 1/2 inch cap stamped "730025 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination pole	105	16.03	52.6
MK # 2	Power pole with 2 guy wires	125	19.35	63.5
MK # 3	Eight inch Pear tree	204	11.58	38.0

AZ Mark Station	730025A
Geodetic Azimuth	269 59 58
Grid Azimuth	269 52 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	ARLR

Comments

3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730025A	11/2/2009	AHTD	White	NA	050189

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	98,927.3661	
Easting (M)	418,771.8160	
Elevation (M)*	111.930	
Northing (SFT)	324,564.2003	
Easting (SFT)	1,373,920.5330	
Elevation (SFT)*	367.224	

Convergence Angle	0	7	11.9711307
Scale Factor	0.999955488		
Elevation Adjust. Factor	0.9999824348		
Combined Adjust. Factor	0.9999379236		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	13	29.5117896
Longitude	91	47	37.6528992
Ellipsoid Height (M):	84.661		
Geoid Height (M):	-27.261		

Location Description

To reach the station from the junction of US highway 167 and state highway 36 in Searcy go south and west on hwy-36 for 5.50 miles to "Honey Hill Road" on the right, turn right on Honey Hill road and go west and then north for 1.60 miles to "Booth Road" and the station on the right. 57.2 feet east of the center of Honey Hill road, 14.5 feet south of the center of Booth road. The station mark is a 2 1/2 inch cap stamped "730025A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Fire hydrant	318	1.62	5.3
MK # 2	Square telephone box	117	6.77	22.2
MK # 3				

AZ Mark Station	730025
Geodetic Azimuth	89 59 47
Grid Azimuth	89 52 35

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	ARLR

Comments

3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730026	11/3/2009	AHTD	White	16	050189, 050198

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,419.6641
Easting (M)	423,218.6420
Elevation (M)*	69.468
Northing (SFT)	336,021.8480
Easting (SFT)	1,388,509.8280
Elevation (SFT)*	227.912
Convergence Angle	0 8 54.5079296
Scale Factor	0.999952224
Elevation Adjust. Factor	0.9999890984
Combined Adjust. Factor	0.9999413229

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 22.4985312
Longitude	91 44 41.4422916
Ellipsoid Height (M):	42.211
Geoid Height (M):	-27.255

Location Description

To reach the station from the junction of highways 16-67B and Main street in the center of Searcy go west on hwy-16 for 0.80 miles to the station on the Right just past Dollar General.72.5 feet east of the center of hwy-16, 138.0 feet north of the edge of a concrete parking lot, 26.25 feet north of a gravel driveway and 1.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "730026 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Sewer manhole	154	15.70	51.5
MK # 2	Combination pole with transformer	207	26.50	86.9
MK # 3	Combination pole with 3 guy wires	6	34.20	112.2

AZ Mark Station	730026A
Geodetic Azimuth	358 48 00
Grid Azimuth	358 39 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	ARLR

Comments

Digital Levels were ran from NGS mark H8 by Crew S5113 during Job 050198. Elev for H8 was updated to 264.279.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730026A	11/3/2009	AHTD	White	16	050189, 050198

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,954.3911
Easting (M)	423,206.0560
Elevation (M)*	70.123
Northing (SFT)	337,776.1981
Easting (SFT)	1,388,468.5354
Elevation (SFT)*	230.063

Convergence Angle	0	8	54.2500761
Scale Factor			0.999951749
Elevation Adjust. Factor			0.9999889955
Combined Adjust. Factor			0.9999407450

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	15	39.8514096
Longitude	91	44	41.8854156
Ellipsoid Height (M):	42.871		
Geoid Height (M):	-27.256		

Location Description

To reach the station from the junction of highways 16-67B and Main street in the center of Searcy go west on hwy-16 for 1.10 miles to the station on the left in front of the First Community Bank at the northwest corner of the intersection with hwy-16 and Holems road. 38.0 feet west of the center of hwy-16, 75.5 feet south of the center of a concrete drive, 54.11 feet north of the center of Holmes road and 1.30 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "730026A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Water valve	254	11.90	39.0
MK # 2	Center of manhole	242	16.30	53.5
MK # 3	Combination pole	2	35.50	116.5

AZ Mark Station	730026
Geodetic Azimuth	178 48 00
Grid Azimuth	178 39 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	ARLR

Comments

Digital Levels were ran from NGS mark H8 by Crew S5113 during Job 050198. Elev for H8 was updated to 264.279.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730027	11/3/2009	AHTD	White	NA	050189, 050198

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	103,214.1341
Easting (M)	426,040.8590
Elevation (M)*	64.493
Northing (SFT)	338,628.3716
Easting (SFT)	1,397,769.0516
Elevation (SFT)*	211.592

Convergence Angle	0	9	59.5299752
Scale Factor			0.999951528
Elevation Adjust. Factor			0.9999898790
Combined Adjust. Factor			0.9999414075

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	15	48.0272112	
Longitude	91	42	49.7011968	
Ellipsoid Height (M):	37.258			
Geoid Height (M):	-27.249			

Location Description

To reach the station from the junction of highways 167 and 385 northeast of Searcy go west on hwy-385 for 0.20 miles to a "T" junction with "CW road straight ahead. Go straight ahead on CW road for 2.10 miles to Davis drive on the left. Turn left on Davis drive and go 0.40 miles to the station on the right behind the guard rail.. 27.4 feet west of the center of Davis drive and 2.30 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "730027 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	North end of guard rail	355	9.80	32.2
MK # 2	Northwest corner of bridge	170	51.50	169.0
MK # 3				

AZ Mark Station	730027A
Geodetic Azimuth	358 21 12
Grid Azimuth	358 11 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	ARLR

Comments

3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730027A	11/3/2009	AHTD	White	NA	050189, 050198

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	103,721.6011	
Easting (M)	426,024.7940	
Elevation (M)*	64.817	
Northing (SFT)	340,293.2863	
Easting (SFT)	1,397,716.3450	
Elevation (SFT)*	212.653	

Convergence Angle	0	9	59.1940576
Scale Factor			0.999951087
Elevation Adjust. Factor			0.9999898282
Combined Adjust. Factor			0.9999409157

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	16	4.4959404
Longitude	91	42	50.2784748
Ellipsoid Height (M):	37.581		
Geoid Height (M):	-27.249		

Location Description

To reach the station from the junction of highways 167 and 385 northeast of Searcy go west on hwy-385 for 0.20 miles to a "T" junction with "CW road straight ahead. Go straight ahead on CW road for 2.10 miles to Davis drive on the left and the station in the southwest corner of the junction. 43.0 feet west of the center of Davis drive, 45.0 feet north of a gravel drive, 33.8 feet east of a chain link fence and 2.40 feet east of a witness post. The station mark is a 2 1/2 inch cap stamped "730027A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	335	18.80	61.7
MK # 2	North end of a 30 inch CMP	222	10.40	34.1
MK # 3	Center of Chain link gate	223	17.10	56.1

AZ Mark Station	730027
Geodetic Azimuth	178 21 12
Grid Azimuth	178 11 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	ARLR

Comments

3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730028	11/3/2009	AHTD	White	67	050189, 050198

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,121.8531	
Easting (M)	429,904.3710	
Elevation (M)*	76.140	
Northing (SFT)	341,606.4464	
Easting (SFT)	1,410,444.5905	
Elevation (SFT)*	249.801	

Convergence Angle	0	11	28.5474616
Scale Factor	0.999950754		
Elevation Adjust. Factor	0.9999880514		
Combined Adjust. Factor	0.9999388060		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	16	17.0910552
Longitude	91	40	16.7236752
Ellipsoid Height (M):	48.909		
Geoid Height (M):	-27.242		

Location Description

To reach the station from the Highway 157 overpass on Hwy-67 north go south on hwy-67 for 2.90 miles to the station on the right at the top of the bank. 91.21 feet northwest of the center of the south bound lane and 4.92 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "730028 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Bend in Right of way fence	44	25.00	82.0
MK # 2	Southeast edge of a yellow billboard	237	15.30	50.2
MK # 3				

AZ Mark Station	730028A
Geodetic Azimuth	204 17 23
Grid Azimuth	204 05 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	ARLR

Comments

3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730028A	11/3/2009	AHTD	White	385	050189, 050198

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	103,816.4621
Easting (M)	429,767.7730
Elevation (M)*	78.977
Northing (SFT)	340,604.5094
Easting (SFT)	1,409,996.4353
Elevation (SFT)*	259.112
Convergence Angle	0 11 25.3789559
Scale Factor	0.999951015
Elevation Adjust. Factor	0.9999876060
Combined Adjust. Factor	0.9999386216

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 16 7.1959476
Longitude	91 40 22.1687868
Ellipsoid Height (M):	51.745
Geoid Height (M):	-27.243

Location Description

The statiom is located at the southeast end of the highway 385 bridge over US highway 67/167 northeast of Searcy. 25.5 feet south of the center of hwy-385, 2.50 feet south of the guard rail and 1.00 foot north of a witness post. The station mark is a 2 1/2 inch cap stamped "730028A 2009" set on top of a 5/8 inch by 4 foot long rebar and is 0.20 feet below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	South end of a bridge	302	2.80	9.2
MK # 2	East end of guard rail	103	20.50	67.3
MK # 3				

AZ Mark Station	730028
Geodetic Azimuth	24 17 20
Grid Azimuth	24 05 54

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	

Comments

3 Wire Levels ran by crews S5111, S5108, & S5113 in Nov. 10 to Mar. 11 from 1st order NGS mark Searcy RM 1 & NGS 2nd order mark Q 205

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730029	9/1/2011	AHTD	WHITE	64	050264

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,573.9331	
Easting (M)	451,216.3238	
Elevation (M)*	65.251	
Northing (SFT)	346,370.4788	
Easting (SFT)	1,480,365.5557	
Elevation (SFT)*	214.076	

Convergence Angle	0	19	39.4373978
Scale Factor	0.999949619		
Elevation Adjust. Factor	0.9999897602		
Combined Adjust. Factor	0.9999393797		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	17	1.0789908
Longitude	91	26	13.1239644
Ellipsoid Height (M):	37.895		
Geoid Height (M):	-27.369		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 7.3 MILES TO THE STATION MARK ON THE LEFT, NORTH 19.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2,7 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730029 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST OF NORTHEAST BRIDGE CORNER	285	16.98	55.7
MK # 2				
MK # 3				

AZ Mark Station	730029A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730029A	9/1/2011	AHTD	WHITE	64	050264

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,490.5340	
Easting (M)	451,643.6801	
Elevation (M)*	65.221	
Northing (SFT)	346,096.8603	
Easting (SFT)	1,481,767.6405	
Elevation (SFT)*	213.980	

Convergence Angle	0	19	49.2675014
Scale Factor	0.999949690		
Elevation Adjust. Factor	0.9999897648		
Combined Adjust. Factor	0.9999394553		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	16	58.2931128
Longitude	91	25	56.2308240
Ellipsoid Height (M):	37.858		
Geoid Height (M):	-27.370		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 7.55 MILES TO THE STATION MARK ON THE RIGHT,SOUTH 32.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730029A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	730029
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730030	9/1/2011	AHTD	WHITE	64	050264

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	106,657.8491	
Easting (M)	446,567.6441	
Elevation (M)*	64.866	
Northing (SFT)	349,926.6266	
Easting (SFT)	1,465,114.0124	
Elevation (SFT)*	212.813	

Convergence Angle	0	17	52.5168846
Scale Factor			0.999948725
Elevation Adjust. Factor			0.9999898206
Combined Adjust. Factor			0.9999385461

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	17	37.0749048
Longitude	91	29	16.8680328
Ellipsoid Height (M):	37.521		
Geoid Height (M):	-27.349		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 4.4 MILES TO THE STATION MARK ON THE LEFT, WEST 198.5 FEET OF A GRAVEL DRIVE WAY, NORTH 38.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND SOUTH 50.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730030 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	18	16.00	52.5
MK # 2				
MK # 3				

AZ Mark Station	730030A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730030A	9/1/2011	AHTD	WHITE	64	050264

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	106,500.7519	
Easting (M)	447,105.2912	
Elevation (M)*	64.697	
Northing (SFT)	349,411.2169	
Easting (SFT)	1,466,877.9429	
Elevation (SFT)*	212.262	

Convergence Angle	0	18	4.8803792
Scale Factor	0.999948852		
Elevation Adjust. Factor	0.9999898470		
Combined Adjust. Factor	0.9999386995		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	17	31.8859476
Longitude	91	28	55.6212324
Ellipsoid Height (M):	37.331		
Geoid Height (M):	-27.352		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 4.75 MILES TO THE STATION MARK ON THE RIGHT, EAST 37 FEET OF THE CENTERLINE OF HURRICANE LAKE ROAD, SOUTH 43.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 11.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730030A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF A RAILROAD SIG NAL BOX	183	21.70	71.2
MK # 2	TELEPHONE POLE	248	25.30	83.0
MK # 3				

AZ Mark Station	730030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730031	9/1/2011	AHTD	WHITE	64	050264

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	107,507.3264	
Easting (M)	442,973.4936	
Elevation (M)*	63.787	
Northing (SFT)	352,713.6200	
Easting (SFT)	1,453,322.2036	
Elevation (SFT)*	209.276	

Convergence Angle	0	16	29.8338664
Scale Factor			0.999948046
Elevation Adjust. Factor			0.9999899898
Combined Adjust. Factor			0.9999380363

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID09			
Latitude	35	18	5.2230636	
Longitude	91	31	38.9597016	
Ellipsoid Height (M):	36.491			
Geoid Height (M):	-27.329			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 2.2 MILES TO THE STATION MARK ON THE LEFT,NORTH 23.4 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730031 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	730031
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730031A	9/1/2011	AHTD	WHITE	64	050264

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	107,348.4183	
Easting (M)	443,537.3732	
Elevation (M)*	63.374	
Northing (SFT)	352,192.2690	
Easting (SFT)	1,455,172.1986	
Elevation (SFT)*	207.920	

Convergence Angle	0	16	42.8040404
Scale Factor	0.999948171		
Elevation Adjust. Factor	0.9999900546		
Combined Adjust. Factor	0.9999382261		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	17	59.9781912
Longitude	91	31	16.6703160
Ellipsoid Height (M):	36.070		
Geoid Height (M):	-27.332		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 2.6 MILES TO THE STATION MARK ON THE RIGHT,WEST 28.5 FEET OF THE CENTERLINE OF WALTER BUTLER ROAD, NORTH 49.8 FEET OF THE CENTERLINE OF THE RAILROAD, SOUTH 48.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730031A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	273	12.19	40.0
MK # 2				
MK # 3				

AZ Mark Station	730031A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730032	9/2/2011	AHTD	WHITE	64	050264, 050477

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,857.7040	0.0040
Easting (M)	439,649.2567	0.0040
Elevation (M)*	75.070	
Northing (SFT)	357,143.9839	
Easting (SFT)	1,442,415.9364	
Elevation (SFT)*	246.293	

Convergence Angle	0	15	13.4035340	
Scale Factor			0.999947015	
Elevation Adjust. Factor			0.9999882192	
Combined Adjust. Factor			0.9999352348	

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)	
Latitude	35	18	49.5402012	
Longitude	91	33	50.3063748	
Ellipsoid Height:			47.775	
Grid Northing (Meters)			108,857.7155	
Grid Easting (Meters)			439,649.2487	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	18	49.5398268	
Longitude	91	33	50.3060616	
Ellipsoid Height (M):			47.749	0.0130
Geoid Height (M):			-27.320	0.0130

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 0.5 MILES TO THE STATION MARK ON THE RIGHT,SOUTHWEST 42.0 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730032 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	155	18.23	59.8
MK # 2	NE CORNER OF METAL BLDING	248	27.58	90.5
MK # 3				

AZ Mark Station	730032A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARSC
Ref Mon # 3	ARWY

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
**********Original geoid ht. was 27.309m & was superceded in Nov. 2021.
**********ELEV. UPDATED IN NOV. 2021 IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM's B 341 & C 341 BY CREW S5103 FOR JOB

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730032A	9/2/2011	AHTD	WHITE	64	050264, 050477

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,420.1937	0.0040
Easting (M)	439,570.6870	0.0040
Elevation (M)*	66.197	
Northing (SFT)	355,708.5855	
Easting (SFT)	1,442,158.1623	
Elevation (SFT)*	217.182	

Convergence Angle	0	15	11.5489980
Scale Factor			0.999947340
Elevation Adjust. Factor			0.9999896116
Combined Adjust. Factor			0.9999369522

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	18	35.3544480
Longitude	91	33	53.4931560
Ellipsoid Height:			38.921
Grid Northing (Meters)			108,420.2044
Grid Easting (Meters)			439,570.6856

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	18	35.3541024	
Longitude	91	33	53.4931020	
Ellipsoid Height (M):			38.880	0.0130
Geoid Height (M):			-27.323	0.0130

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 367, IN BALD KNOB, GO EAST ON HIGHWAY 64 FOR 0.35 MILES TO MILLER STREET AND TURN RIGHT (SOUTH) AND GO 0.3 MILES TO THE JUNCTION OF MILLER STREET AND WALNUT STREET AND THE STATION MARK IN THE SOUTHEAST CORNER OF THE INTERSECTION, SOUTH 58.8 FEET OF THE CENTERLINE OF MILLER STREET AND WEST 20.3 FEET OF THE CENTERLINE OF WALNUT STREET AND 32.2 FEET EAST OF THE CENTERLINE OF A RAILROAD. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730032A 2011" ON TOP OF A 2 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE	159	5.94	19.5
MK # 2				
MK # 3				

AZ Mark Station	730032
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARSC
Ref Mon # 3	ARWY

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.
**********Original geoid ht. was 27.312m & was superceded in Nov. 2021.
**********ELEV. UPDATED IN NOV. 2021 IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM's B 341 & C 341 BY CREW S5103 FOR JOB

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730033	9/1/2011	AHTD	WHITE	67/167	012154,Mobile LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	82,190.2690
Easting (M)	408,372.8072
Elevation (M)*	
Northing (SFT)	269,652.5742
Easting (SFT)	1,339,803.1183
Elevation (SFT)*	
Convergence Angle	0 3 12.3135338
Scale Factor	0.999975305
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	None
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 09
Latitude	35 4 26.9017608
Longitude	91 54 29.5070940
Ellipsoid Height (M):	48.444
Geoid Height (M):	-27.314

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67, LOCATED ON THE WEST SIDE OF BEEBE, GO NORTH ON U.S. HIGHWAY 67 AND U.S. HIGHWAY 64 FOR 0.55 MILES TO THE STATION ON THE LEFT, SET IN THE MEDIAN. THE STATION IS 49.31 FEET SOUTHEAST OF THE CENTER OF THE SOUTH BOUND LANE, 35.56 FEET NORTHWEST OF THE NORTH BOUND LANE AND 4.43 FEET SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730033 2011" SET ON TOP OF A REBAR 2.54 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	730015
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD, 35-04-27, 91-54-30

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730034	9/1/2011	AHTD	WHITE	64	012154Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	84,742.7076	
Easting (M)	399,869.8799	
Elevation (M)*	78.034	
Northing (SFT)	278,026.6999	
Easting (SFT)	1,311,906.4310	
Elevation (SFT)*	256.018	

Convergence Angle	0	0	2.9895563
Scale Factor			0.999971832
Elevation Adjust. Factor			0.9999877540
Combined Adjust. Factor			0.9999595864

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 09			
Latitude	35	5	49.8555456	
Longitude	92	0	5.1375852	
Ellipsoid Height (M):	50.622			
Geoid Height (M):	-27.408			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 6.3 MILES TO THE STATION ON THE LEFT, SOUTH 54 FEET OF THE CENTERLINE OF THE HIGHWAY AND 8.0 FEET NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730034 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE BOX	199	4.48	14.7
MK # 2	POWER POLE	102	21.43	70.3
MK # 3	NORTHWEST CORNER OF WOOD FRAME	238	15.54	51.0

AZ Mark Station	730034A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD, 35-05-50, 92-00-05, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730034A	9/1/2011	AHTD	WHITE	64	012154,Mobile LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	84,789.4447	
Easting (M)	399,381.3158	
Elevation (M)*	76.430	
Northing (SFT)	278,180.0365	
Easting (SFT)	1,310,303.5336	
Elevation (SFT)*	250.755	

Convergence Angle	0	0	14.2145679
Scale Factor	0.999971770		
Elevation Adjust. Factor	0.9999880057		
Combined Adjust. Factor	0.9999597761		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	5	51.3715128
Longitude	92	0	24.4278900
Ellipsoid Height (M):	49.028		
Geoid Height (M):	-27.413		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 6.6 MILES TO THE STATION ON THE RIGHT, SOUTH 38.4 FEET OF THE CENTERLINE OF THE HIGHWAY AND 1.8 FEET SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730034A 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	283	21.60	70.9
MK # 2	FENCE CORNER	95	23.41	76.8
MK # 3				

AZ Mark Station	730034
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD, 35-05-51, 92-00-24, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730035	9/1/2011	AHTD	WHITE	64	2154,050263Mobie LiDAR-C

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,136.2646	
Easting (M)	395,155.9669	
Elevation (M)*	82.939	
Northing (SFT)	279,317.8948	
Easting (SFT)	1,296,440.8681	
Elevation (SFT)*	272.110	

Convergence Angle	0	1	51.2982781
Scale Factor			0.999971313
Elevation Adjust. Factor			0.9999869843
Combined Adjust. Factor			0.9999582977

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	6	2.5841700
Longitude	92	3	11.2673052
Ellipsoid Height (M):	55.482		
Geoid Height (M):	-27.460		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 9.15 MILES TO THE STATION ON THE LEFT, WEST 50 FEET OF THE CENTERLINE OF THE HIGHWAY AND 13.6 FEET EAST OF A WITNESS POST, 26.6 FEET SOUTH OF A DIRT FIELD ROAD.. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730035 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	165	25.30	83.0
MK # 2				
MK # 3				

AZ Mark Station	730035A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD, 35-06-03, 92-02-11, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730035A	9/1/2011	AHTD	WHITE	64	012154Mobie LiDAR-CLS

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,646.0507	
Easting (M)	394,945.8484	
Elevation (M)*	82.239	
Northing (SFT)	280,990.4180	
Easting (SFT)	1,295,751.5043	
Elevation (SFT)*	269.812	

Convergence Angle	0	1	56.1326295
Scale Factor			0.999970645
Elevation Adjust. Factor			0.9999870942
Combined Adjust. Factor			0.9999577396

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 09		
Latitude	35	6	19.1230668
Longitude	92	3	19.5751908
Ellipsoid Height (M):	54.767		
Geoid Height (M):	-27.467		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 64 AND U.S. HIGHWAY 67/167, LOCATED ON THE WEST SIDE OF BEEBE, GO WEST ON U.S. HIGHWAY 64 9.5 MILES TO THE STATION ON THE RIGHT, EAST 26 FEET OF THE CENTERLINE OF THE HIGHWAY AND 14.7 FEET WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730035A 2011" SET ON TOP OF A REBAR 4 FEET LONG AND DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	345	23.23	76.2
MK # 2	POWER POLE	138	23.01	75.5
MK # 3				

AZ Mark Station	730035
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

HANDHELD, 35-06-19, 92-03-20, ELEVATION BY DIGITAL LEVELS IN APRIL 2012 FROM TBM 996 OF JOB #080306 (3" AHTD DISC IN BRIDGE OVER LITTLE CYPRESS CREEK) TO NGS MARK RV 122. ELEVATION FOR TBM 996 DERIVED FROM 3WR LEVELS FROM NGS L 69 WHICH NO LONGER EXISTS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730036	1/22/2013	AHTD	WHITE	NA	050198

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	103,512.2943	
Easting (M)	419,183.5555	
Elevation (M)*	133.224	
Northing (SFT)	339,606.5855	
Easting (SFT)	1,375,271.3817	
Elevation (SFT)*	437.084	

Convergence Angle	0	7	21.6718425
Scale Factor	0.999951253		
Elevation Adjust. Factor	0.9999790933		
Combined Adjust. Factor	0.9999303473		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	15	58.2640920
Longitude	91	47	20.9821200
Ellipsoid Height (M):	105.948		
Geoid Height (M):	-27.275		

Location Description

To reach from the inter. of Hwy. 16 and Hwy. 67B in Searcy. Go West on Hwy. 16 for 1.2 miles to Holmes rd. Turn left (West) on Holmes rd. for 1.5 miles to Verkler rd. Turn left (South) on Verkler rd. for 1.1 miles on Verkler rd. to the station on the right. Station being North 85.8 ft. from driveway to house and West 45.4 ft. from rd. leading to gas well. The station mark is a 2 1/2 in. cap stamped "730036 2013" set ontop a 5/8 in. by 4 ft. rebar driven 0.10 in. below surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	West end of gate	89	11.13	36.5
MK # 2	24" Oak	180	17.28	56.7
MK # 3	30" Oak	245	28.83	94.6

AZ Mark Station	730036A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST. FROM GPS MON. 730026 AND 730026A DURING JOB 050251 OR 050198 BY CREW S5102 IN FEB 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730036A	1/22/2013	AHTD	WHITE	NA	050198

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	103,799.0592	
Easting (M)	419,143.5207	
Elevation (M)*	132.701	
Northing (SFT)	340,547.4134	
Easting (SFT)	1,375,140.0342	
Elevation (SFT)*	435.371	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	16	7.5723600	
Longitude	91	47	22.5418920	
Ellipsoid Height (M):	105.432			
Geoid Height (M):	-27.277			

Convergence Angle	0	7	20.7642126
Scale Factor	0.999951005		
Elevation Adjust. Factor	0.9999791752		
Combined Adjust. Factor	0.9999301813		

Location Description

To reach from the inter. of Hwy. 16 and Hwy. 67B in Searcy. Go West on Hwy. 16 for 1.2 miles to Holmes rd. Turn left (West) on Holmes rd. for 1.5 miles to Verkler rd. Turn left (South) on Verkler rd. for 1.1 miles on Verkler rd. to gravel rd. leading to gas well. Turn right (North) on gas well rd. for 0.20 miles to station on the right. Station being Northwest 131 ft. from gas well pad and Northeast 82 ft. from center of gravel rd. The station mark is a 2 1/2 in. cap stamped "730036A 2013" set ontop a 5/8 in. by 4 ft. rebar driven 0.10 in. below surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	15" Pine tree	13	24.57	80.6
MK # 2				
MK # 3				

AZ Mark Station	730036
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV. WAS EST. FROM GPS MON. 730026 AND 730026A DURING JOB 050251 OR 050198 BY CREW S5102 IN FEB 2013.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730037	9/15/2014	AHTD	WHITE	36	050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	101,604.7197	0.0010
Easting (M)	415,938.8254	0.0020
Elevation (M)*	93.468	
Northing (SFT)	333,348.1512	
Easting (SFT)	1,364,625.9630	
Elevation (SFT)*	306.652	

Convergence Angle	0	6	6.8889779
Scale Factor			0.999952947
Elevation Adjust. Factor			0.9999853321
Combined Adjust. Factor			0.9999382798

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	14	56.5698300
Longitude	91	49	29.4972888
Ellipsoid Height (M):	66.161		0.0060
Geoid Height (M):	-27.292		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 2.3 MILES TO THE MARK ON THE RIGHT, 26.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 15.3 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730037 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	85	8.53	28.0
MK # 2				
MK # 3				

AZ Mark Station	730037A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730037A	9/15/2014	AHTD	WHITE	36	050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	101,389.1460	0.0010
Easting (M)	416,406.4531	0.0020
Elevation (M)*	87.726	
Northing (SFT)	332,640.8898	
Easting (SFT)	1,366,160.1715	
Elevation (SFT)*	287.814	

Convergence Angle	0	6	17.6439918	
Scale Factor			0.999953146	
Elevation Adjust. Factor			0.9999862331	
Combined Adjust. Factor			0.9999393798	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	14	49.5470868	
Longitude	91	49	11.0146800	
Ellipsoid Height (M):	60.427			0.0060
Geoid Height (M):	-27.288			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 2.6 MILES TO THE MARK ON THE RIGHT, 57.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 41 FEET WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 48 FEET EAST OF THE CENTER OF A GRAVEL DRIVEWAY AND 10.3 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730037A 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	67	5.48	18.0
MK # 2				
MK # 3				

AZ Mark Station	730037
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730038	9/15/2014	AHTD	WHITE	36	050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,723.5003	0.0010
Easting (M)	411,466.9424	0.0010
Elevation (M)*	100.578	
Northing (SFT)	337,018.6839	
Easting (SFT)	1,349,954.4602	
Elevation (SFT)*	329.978	

Convergence Angle	0	4	23.9857166	
Scale Factor			0.999951933	
Elevation Adjust. Factor			0.9999842163	
Combined Adjust. Factor			0.9999361501	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	15	33.0961212	
Longitude	91	52	26.3376660	
Ellipsoid Height (M):			73.249	0.0040
Geoid Height (M):			-27.327	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 0.65 MILES TO THE MARK ON THE RIGHT, 32.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 18 FEET EAST OF THE CENTER OF A GRAVEL DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730038 2014" ON TOP OF A 3.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW COR HOUSE	10	17.22	56.5
MK # 2				
MK # 3				

AZ Mark Station	730038A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730038A	9/15/2014	AHTD	WHITE	36	050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	102,441.9451	0.0010
Easting (M)	411,904.2342	0.0010
Elevation (M)*	91.690	
Northing (SFT)	336,094.9482	
Easting (SFT)	1,351,389.1417	
Elevation (SFT)*	300.819	

Convergence Angle	0	4	34.0441889
Scale Factor	0.999952185		
Elevation Adjust. Factor	0.9999856111		
Combined Adjust. Factor	0.9999377968		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	15	23.9411628
Longitude	91	52	9.0520716
Ellipsoid Height (M):	64.369	0.0040	
Geoid Height (M):	-27.324		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 0.35 MILES TO THE MARK ON THE LEFT, 51.0 FEET SOUTH SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY AND 2.0 FEET WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730038A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	121	2.01	6.6
MK # 2	COMBINATION POLE	79	4.57	15.0
MK # 3				

AZ Mark Station	730038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730039	9/15/2014	AHTD	WHITE	36	050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,202.2851	0.0010
Easting (M)	407,026.1559	0.0010
Elevation (M)*	99.031	
Northing (SFT)	341,870.3304	
Easting (SFT)	1,335,384.9798	
Elevation (SFT)*	324.905	

Convergence Angle	0	2	41.7790996
Scale Factor	0.999950645		
Elevation Adjust. Factor	0.9999844590		
Combined Adjust. Factor	0.9999351048		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	16	21.2313288
Longitude	91	55	21.9808524
Ellipsoid Height (M):	71.691	0.0060	
Geoid Height (M):	-27.349		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 3.6 MILES TO THE MARK ON THE LEFT, 36.0 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY AND 4.1 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730039 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	730039A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730039A	9/15/2014	AHTD	WHITE	36	050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,110.9758	0.0010
Easting (M)	407,448.8784	0.0010
Elevation (M)*	93.492	
Northing (SFT)	341,570.7598	
Easting (SFT)	1,336,771.8619	
Elevation (SFT)*	306.731	

Convergence Angle	0	2	51.5106454	
Scale Factor	0.999950723			
Elevation Adjust. Factor	0.9999853283			
Combined Adjust. Factor	0.9999360520			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	16	18.2572680
Longitude	91	55	5.2570848
Ellipsoid Height (M):	66.163	0.0060	
Geoid Height (M):	-27.347		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 3.3 MILES TO THE MARK ON THE RIGHT, 23.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 20.0 FEET SOUTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730039A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	324	7.40	24.3
MK # 2				
MK # 3				

AZ Mark Station	730039
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730040	9/15/2014	AHTD	WHITE	36	050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,683.4106	0.0010
Easting (M)	403,991.5734	0.0020
Elevation (M)*	233.093	
Northing (SFT)	346,729.6563	
Easting (SFT)	1,325,429.0204	
Elevation (SFT)*	764.739	

Convergence Angle	0	1	31.9222459	
Scale Factor			0.999949411	
Elevation Adjust. Factor			0.9999634215	
Combined Adjust. Factor			0.9999128343	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID96			
Latitude	35	17	9.3542964	
Longitude	91	57	22.0306176	
Ellipsoid Height (M):	205.699			0.0070
Geoid Height (M):	-27.357			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 5.5 MILES,THEN LEFT (WEST) ON GRAVEL HILL ROAD 0.40 MILES TO THE MARK ON THE LEFT,27.0 FEET SOUTH OF THE CENTERLINE GRAVEL HILL ROAD, 36.8 FEET WEST OF THE CENTER OF AGRAVEL DRIVEWAY AND 19.0 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730040 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGN (J H RANCH)	162	10.70	35.1
MK # 2				
MK # 3				

AZ Mark Station	730040A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730040A	9/15/2014	AHTD	WHITE	36	050280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	105,692.2200	0.0010
Easting (M)	404,672.3100	0.0010
Elevation (M)*	229.728	
Northing (SFT)	346,758.5585	
Easting (SFT)	1,327,662.4037	
Elevation (SFT)*	753.698	

Convergence Angle	0	1	47.5990832
Scale Factor	0.999949404		
Elevation Adjust. Factor	0.9999639496		
Combined Adjust. Factor	0.9999133554		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID96		
Latitude	35	17	9.6294768
Longitude	91	56	55.0898016
Ellipsoid Height (M):	202.347		0.0070
Geoid Height (M):	-27.354		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, WEST OF SEARCY, GO WEST ON HIGHWAY 36 FOR 5.5 MILES TO THE MARK ON THE RIGHT,53.2 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, 20 FEET NORTH OF THE CENTER OF NEWTON HOLLOW ROAD, 13.5 FEET EAST OF THE CENTER OF IVY LANE AND 35.4 FEET NORTH OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730040A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/ LIGHT AND TRANSFORMER	66	18.23	59.8
MK # 2	POWER POLE W/ GUY AND TRANSFORMER	125	19.20	63.0
MK # 3	N. END OF 24" CMP CULVERT	287	8.90	29.2

AZ Mark Station	730040
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

DIGITAL LEVELS WERE RAN FROM AHTD GPS MON. 730014A AND NGS BMS K206, P206, AND Q206 DURING JOB 050280 BY CREW S5101 IN SEP 2014.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730041	9/16/2014	AHTD	WHITE	16	050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	117,921.4836	0.0040
Easting (M)	416,677.2376	0.0040
Elevation (M)*	100.096	

Northing (SFT)	386,880.7341	
Easting (SFT)	1,367,048.5704	
Elevation (SFT)*	328.397	

Convergence Angle	0	6	24.5864278
Scale Factor	0.999941297		
Elevation Adjust. Factor	0.9999842920		
Combined Adjust. Factor	0.9999255899		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID96		
Latitude	35	23	46.0011480
Longitude	91	48	59.0840280
Ellipsoid Height (M):	72.780	0.0060	
Geoid Height (M):	-27.317		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 110 AND STATE HIGHWAY 16 IN PANGBURN, GO EAST ON HIGHWAY 16 FOR 2.5 MILES TO THE MARK ON THE LEFT, 16.5 FEET EAST OF THE EAST EDGE OF PAVEMENT, 96 FEET SOUTH SOUTHEAST OF THE CENTER OF A PAVED DRIVEWAY. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730041 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/ GUY, LIGHT AND TRANSF ORMER	102	47.50	155.8
MK # 2	POWER POLE W/ LIGHT	345	95.50	313.3
MK # 3	TELEPHONE BOX	116	28.00	91.9

AZ Mark Station	730022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730042	9/16/2014	AHTD	WHITE	110	050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	121,357.3052	0.0040
Easting (M)	414,803.5848	0.0040
Elevation (M)*	106.679	
Northing (SFT)	398,153.0921	
Easting (SFT)	1,360,901.4278	
Elevation (SFT)*	349.995	

Convergence Angle	0	5	41.5102136	
Scale Factor	0.999939676			
Elevation Adjust. Factor	0.9999832589			
Combined Adjust. Factor	0.9999229359			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID96			
Latitude	35	25	37.5987720	
Longitude	91	50	13.1109720	
Ellipsoid Height (M):	79.363			0.0070
Geoid Height (M):	-27.323			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 110 AND STATE HIGHWAY 16 IN PANGBURN, GO NORTH ON HIGHWAY 110 FOR 210.5 FEET MEASURED TO THE MARK ON THE RIGHT, 31.0 FEET EAST OF CENTERLINE OF HIGHWAY 110, 210.5 FEET NORTH OF THE CENTERLINE OF MAIN STREET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730042 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHEAST CORNER OF PANGBURN FIRE DEPARTMENT BUILDING	247	65.20	213.9
MK # 2	COMBINATION POLE W/ GUY AND LIGHT	281	17.70	58.1
MK # 3				

AZ Mark Station	730042A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730042A	9/16/2014	AHTD	WHITE	110	050279

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	121,823.1111	0.0040
Easting (M)	414,521.3035	0.0040
Elevation (M)*	102.198	
Northing (SFT)	399,681.3237	
Easting (SFT)	1,359,975.3099	
Elevation (SFT)*	335.293	

Convergence Angle	0	5	35.0156119	
Scale Factor	0.999939479			
Elevation Adjust. Factor	0.9999839621			
Combined Adjust. Factor	0.9999234421			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID96			
Latitude	35	25	52.7289240	
Longitude	91	50	24.2720160	
Ellipsoid Height (M):	74.873			0.0080
Geoid Height (M):	-27.323			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 110 AND STATE HIGHWAY 16 IN PANGBURN, GO NORTH ON HIGHWAY 110 FOR 0.3 MILES TO THE MARK ON THE LEFT, 39.2 FEET WEST OF CENTERLINE OF HIGHWAY 110, 24.0 FEET SOUTH OF THE CENTERLINE OF FISK STREET. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "730042A 2014" ON TOP OF A 4.0 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE W/ GUY AND TRANSFORMER	336	43.80	143.7
MK # 2				
MK # 3				

AZ Mark Station	730042
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730043	3/25/2024	ARDOT	WHITE	310	05X340

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,819.8289	0.0010
Easting (M)	417,957.4050	0.0010
Elevation (M)*		

Northing (SFT)	370,143.0553	
Easting (SFT)	1,371,248.5862	
Elevation (SFT)*		

Convergence Angle	0	6	53.8716690
Scale Factor			0.999944239
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	21	0.3740904	
Longitude	91	48	8.7570216	
Ellipsoid Height (M):	45.546			0.0050
Geoid Height (M):	-27.418			0.0050

Location Description

To reach from the intersection of Hwy. 310 and Hwy. 16 North of Albion.Go West on Hwy 310 for 0.4 miles to the station on the Left/South. The station is 38.6ft. South of the centerline of Hwy 310, 4.1ft North of a sign post, and 5ft North of a barbwire fence. The station is a standard 2 1/2 in. aluminium cap stamped "730043 2024" set ontop of a 5/8in by 4ft rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	730043A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV, ARWY

Comments

STATIC DERIVED ELEV. 239.3840 US FT IS BASED ON CONSTRAINTS ON ARDOT CORS SITES ARBT, ARLR, ARRV & ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730043A	3/25/2024	ARDOT	WHITE	310	05X340

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	112,852.5759	0.0010
Easting (M)	418,370.3650	0.0010
Elevation (M)*		
Northing (SFT)	370,250.4928	
Easting (SFT)	1,372,603.4392	
Elevation (SFT)*		

Convergence Angle	0	7	3.3908507	
Scale Factor	0.999944219			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	21	1.4095224	
Longitude	91	47	52.3982040	
Ellipsoid Height (M):	44.518	0.0050		
Geoid Height (M):	-27.415	0.0050		

Location Description

To reach from the intersection of Hwy. 310 and Hwy. 16 North of Albion.Go West on Hwy 310 for 0.15 miles to the station on the Left/South. The station is 20ft. South of the centerline of Hwy 310, and 21.6ft North of a sign post. The station mark is a standard 2 1/2in. aluminium cap stamped "730043A 2024" and set on top of a 5/8in. by 4ft. rebar driven 0.10in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	730043
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	ARRV, ARWY

Comments

STATIC DERIVED ELEV. OF 235.9992 US FT IS BASED ON CONSTRAINING HTs. ON ARDOT CORS SITES ARBT, ARLR, ARRV & ARWY. ELEV. OF 236.0070 US FT IS BASED ON DIGITAL LEVELS FROM STATIC DERIVED ELEV. ON GPS #730043.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730044	4/3/2024	ARDOT	WHITE	167	012527

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	79,213.2649	0.0010
Easting (M)	404,691.5743	0.0010
Elevation (M)*	69.483	
Northing (SFT)	259,885.5199	
Easting (SFT)	1,327,725.6067	
Elevation (SFT)*	227.962	

Convergence Angle	0	1	47.7242539
Scale Factor	0.999979548		
Elevation Adjust. Factor	0.9999890960		
Combined Adjust. Factor	0.9999686442		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	2	50.3842524
Longitude	91	56	54.8746944
Ellipsoid Height (M):	42.166		0.0070
Geoid Height (M):	-27.317		

Location Description

From the intersection of U. S. Hwy 167 and Arkansas State Highway 319 (North Street) on the West Side of Ward, Lonoke County Arkansas, travel North East along State Highway 167 for 1.1 miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 730044 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 26 feet (7.92 Meters) East of the back of curb of U. S. Highway 167 South bound, 24 feet (7.31 Meters) West of the back of curb of U. S. Highway 167 North bound and 8 feet (2.44 Meters) South of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW BRIDGE CORNER	95	6.70	22.0
MK # 2	SE BRIDGE CORNER	344	7.62	25.0
MK # 3				

AZ Mark Station	730044A
Geodetic Azimuth	50 24 33.2
Grid Azimuth	50 22 41.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARSC
Ref Mon # 2	ARCW
Ref Mon # 3	ARHZ

Comments

ELEV WAS EST BY STATIC OBS HOLDING NGS BM 18 BLS BY CREW S5101 DURING JOB 11X044 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730044A	4/3/2024	ARDOT	WHITE	167	012527

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	79,515.5146	0.0010
Easting (M)	405,056.6479	0.0010
Elevation (M)*	68.036	
Northing (SFT)	260,877.1508	
Easting (SFT)	1,328,923.3523	
Elevation (SFT)*	223.216	

Convergence Angle	0	1	56.1106924
Scale Factor			0.999979107
Elevation Adjust. Factor			0.9999893230
Combined Adjust. Factor			0.9999684302

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	3	0.1858896
Longitude	91	56	40.4625084
Ellipsoid Height (M):	40.721		0.0070
Geoid Height (M):	-27.318		

Location Description

From the intersection of U. S. Hwy 167 and Arkansas State Highway 319 (North Street) on the West Side of Ward, Lonoke County Arkansas, travel North East along State Highway 167 for 1.4 miles to the station on the Left. The Station is a standard 2.5 inch AHTD GPS cap stamped 730044 (2024) set just below the ground surface on top of a 5/8 inch rebar 4 foot in length. The station is 36 feet (10.97 Meters) West of the back of West edge of pavement of U. S. Highway 167 North bound, 18 feet (5.48 Meters) East of the East edge of pavement of U. S. Highway 167 North bound and 27 feet (8.23 Meters) West of a witness post.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Drop Inlet	228	39.62	130.0
MK # 2				
MK # 3				

AZ Mark Station	730044
Geodetic Azimuth	230 24 33.2
Grid Azimuth	230 22 41.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARSC
Ref Mon # 2	ARCW
Ref Mon # 3	ARHZ

Comments

ELEV WAS EST BY DIGITAL LEVELS FROM GPS 730044 BY CREW S5101 DURING JOB 11X044 IN APRIL 2024.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730045	4/29/2024	ARDOT	WHITE	367S	C73017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	82,725.4655	0.0020
Easting (M)	409,099.6452	0.0020
Elevation (M)*	80.818	
Northing (SFT)	271,408.4647	
Easting (SFT)	1,342,187.7526	
Elevation (SFT)*	265.152	

Convergence Angle	0	3	29.0205952
Scale Factor			0.999974566
Elevation Adjust. Factor			0.9999873171
Combined Adjust. Factor			0.9999618835

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	4	44.2460460	
Longitude	91	54	0.7958268	
Ellipsoid Height (M):			53.490	0.0020
Geoid Height (M):			-27.331	0.0020

Location Description

To reach from the intersection of Hwy 367s and Highway 67 in Beebe, go to the Southeast corner of the overpass. The station is 28.0 ft. East of the centerline of Highway 367s, and 7.5ft East of the guardrail.The station mark is a standard 2 1/2in. aluminium cap stamped "730045 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF DROPINLET	170	8.40	27.6
MK # 2	SOUTHEAST CORNER OF OVERPASS	270	2.20	7.2
MK # 3				

AZ Mark Station	730045A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARCW
Ref Mon # 3	ARHZ, ARLR

Comments

ELEV. IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM 18 BLS BY CREW S5103 IN MAY 2024 FOR JOB # C73017

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
730045A	4/29/2024	ARDOT	WHITE	367S	C73017

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	82,357.4324	0.0020
Easting (M)	409,184.2953	0.0020
Elevation (M)*	74.044	
Northing (SFT)	270,201.0095	
Easting (SFT)	1,342,465.4755	
Elevation (SFT)*	242.925	

Convergence Angle	0	3	30.9563774
Scale Factor	0.999975075		
Elevation Adjust. Factor	0.9999883802		
Combined Adjust. Factor	0.9999634555		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	4	32.3005044
Longitude	91	53	57.4691640
Ellipsoid Height (M):	46.724		0.0020
Geoid Height (M):	-27.327		0.0020

Location Description

To reach from the intersection of Hwy 367s and Highway 67 in Beebe, go South on 367s for 0.25 miles to the station on the Left/East. The station is 79.2 ft. East of the centerline of Highway 367s, and 13.ft South of the centerline of Freedom Way.The station mark is a standard 2 1/2in. aluminium cap stamped "730045A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF BRICKWALL	250	14.60	47.9
MK # 2	CENTER OF MANHOLE	266	7.50	24.6
MK # 3	CENTER OF MANHOLE	100	4.20	13.8

AZ Mark Station	730045
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARCW
Ref Mon # 3	ARHZ, ARLR

Comments

ELEV. IS BASED ON DIGITAL LEVELS FROM NGS PUBLISHED 2ND ORDER BM 18 BLS BY CREW S5103 IN MAY 2024 FOR JOB # C73017

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740001	11/16/2000	AHTD	WOODRUFF	33C	110392

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,231.5689	
Easting (M)	459,048.7990	
Elevation (M)*		
Northing (SFT)	341,966.4056	
Easting (SFT)	1,506,062.6014	
Elevation (SFT)*		

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	16	15.9558672
Longitude	91	21	3.5138304
Ellipsoid Height (M):	36.889		
Geoid Height (M):	-27.296		

Convergence Angle	0	22	39.5992648
Scale Factor	0.999950784		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 33 AND STATE HIGHWAY 33C, LOCATED ON THE SOUTHEAST SIDE OF AUGUSTA, GO EAST ON STATE HIGHWAY 33C FOR 0.92 KM (0.57 MI) TO THE STATION ON THE LEFT. THE STATION IS 17.60 METERS SOUTH OF THE BACK OF CURB OF A PARKING LOT, 11.40 METERS EAST OF THE CENTER OF A CONCRETE DITCH, 11.05 METERS WEST OF A BACK OF CRUB OF THE ENTRANCE TO THE PASLODE COMPANY, 10.15 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 33C AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740001 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.263 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END OF RCP	69	8.20	26.9
MK # 2	GUY POLE	145	7.65	25.1
MK # 3	NONE			

AZ Mark Station	740001A
Geodetic Azimuth	90 50 26.55772
Grid Azimuth	90 27 46.89385

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	SEARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740001A	11/16/2000	AHTD	WOODRUFF	33C	110392

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	104,225.6436
Easting (M)	459,781.9978
Elevation (M)*	
Northing (SFT)	341,946.9657
Easting (SFT)	1,508,468.1044
Elevation (SFT)*	
Convergence Angle	0 22 56.4797681
Scale Factor	0.999950793
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 16 15.6057960
Longitude	91 20 34.5045012
Ellipsoid Height (M):	37.962
Geoid Height (M):	-27.296

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 33 AND STATE HIGHWAY 33C, LOCATED ON THE SOUTHEAST SIDE OF AUGUSTA, GO EAST ON STATE HIGHWAY 33C FOR 0.21 KM (0.13 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.00 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 33C, 2.60 METERS WEST OF A WOODEN POST AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740001A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 733.263 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	740001
Geodetic Azimuth	270 50 43.30901
Grid Azimuth	270 27 46.89385

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	SEARPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740002	11/16/2000	AHTD	WOODRUFF	17	110423, 110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	104,089.6976
Easting (M)	469,624.2649
Elevation (M)*	
Northing (SFT)	341,500.9495
Easting (SFT)	1,540,758.9424
Elevation (SFT)*	

Convergence Angle	0	26	43.0650404
Scale Factor	0.999950970		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	16	8.8877208
Longitude	91	14	5.1152388
Ellipsoid Height (M):	32.268		
Geoid Height (M):	-27.274		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 17, LOCATED ON THE NORTH SIDE OF PATTERSON, GO SOUTH ON STATE HIGHWAY 17 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.42 METERS WEST OF THE CENTER OF STATE HIGHWAY 17 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740002 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 761.954 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	740002A
Geodetic Azimuth	180 33 17.31222
Grid Azimuth	180 06 34.24784

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	SEARPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740002A	11/16/2000	AHTD	WOODRUFF	17	110423, 110289

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	103,327.7882
Easting (M)	469,622.8086
Elevation (M)*	
Northing (SFT)	339,001.2518
Easting (SFT)	1,540,754.1645
Elevation (SFT)*	

Convergence Angle	0	26	42.8951889
Scale Factor	0.999951632		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	44.1649080
Longitude	91	14	5.4071304
Ellipsoid Height (M):	32.991		
Geoid Height (M):	-27.269		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 17, LOCATED ON THE NORTH SIDE OF PATTERSON, GO SOUTH ON STATE HIGHWAY 17 FOR 0.89 KM TO THE STATION ON THE RIGHT. THE STATION IS 11.70 METERS NORTH OF THE CENTER OF A GRAVEL DRIVE, 11.40 METERS WEST OF THE CENTER OF STATE HIGHWAY 17 AND 0.66 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740002A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 761.954 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	220	2.70	8.9
MK # 2	SQUARE METAL BRACE POST	285	1.00	3.3
MK # 3	NONE			

AZ Mark Station	740002
Geodetic Azimuth	0 33 17.14369
Grid Azimuth	0 06 34.24784

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	SEARPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740003	1/7/2003	AHTD	WOODRUFF	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	103,874.1512
Easting (M)	475,145.6290
Elevation (M)*	
Northing (SFT)	340,793.7777
Easting (SFT)	1,558,873.6178
Elevation (SFT)*	

Convergence Angle	0	28	50.1444075
Scale Factor	0.999951195		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	16	0.4458288
Longitude	91	10	26.7279600
Ellipsoid Height (M):	37.987		
Geoid Height (M):	-27.243		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-17 AND HWY-145 IN McRORY, GO EAST ON HWY-64 FOR 1.45 MILES TO THE STATION ON THE LEFT NEAR A CONCRETE "McRORY" SIGN. 20 METERS SOUTHEAST OF THE SIGN, 11.0 METERS NORTH OF THE CENTER OF HWY-64 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740003 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	322	20.20	66.3
MK # 2	SOUTH END OF CONCRETE SIGN "McRORY "	328	20.50	67.3
MK # 3	METER POLE	343	23.50	77.1

AZ Mark Station	740003A
Geodetic Azimuth	125 23 46
Grid Azimuth	124 54 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740003A	1/7/2003	AHTD	WOODRUFF	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	103,196.5091
Easting (M)	476,116.4500
Elevation (M)*	
Northing (SFT)	338,570.5469
Easting (SFT)	1,562,058.7197
Elevation (SFT)*	
Convergence Angle	0 29 12.3628652
Scale Factor	0.999951795
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 15 38.1912120
Longitude	91 9 48.5452980
Ellipsoid Height (M):	36.449
Geoid Height (M):	-27.232

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-64, HWY-17 AND HWY-145 IN McRORY, GO EAST ON HWY-64 FOR 2.20 MILES TO THE STATION ON THE RIGHT,12.50 METERS WEST OF A FIELD ENTRANCE, 15.2 METERS SOUTH OF THE CENTER OF HWY-64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740003A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	UNDERGROUND FIBER OPTIC CABLE MAR KER	110	19.80	65.0
MK # 2				
MK # 3				

AZ Mark Station	740003
Geodetic Azimuth	305 24 08
Grid Azimuth	304 54 56

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740004	1/7/2003	AHTD	WOODRUFF	269	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,722.0311
Easting (M)	481,675.8800
Elevation (M)*	
Northing (SFT)	337,013.8637
Easting (SFT)	1,580,298.2830
Elevation (SFT)*	
Convergence Angle	0 31 20.2463669
Scale Factor	0.999952260
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	21.2064516
Longitude	91	6	8.7761052
Ellipsoid Height (M):	38.543		
Geoid Height (M):	-27.194		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 269, LOCATED WEST OF MORTON , GO NORTH ON 269 FOR 0.30 MI TO THE STATION ON THE LEFT NEAR A FIELD ENTRANCE AND A PIPE GATE. THE STATION IS 12.1 METERS WEST OF THE CENTER OF PAVED COUNTY ROAD 269 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740004 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FOUR INCH PIPE GATE POST	337	1.70	5.6
MK # 2				
MK # 3				

AZ Mark Station	740004A
Geodetic Azimuth	220 10 05
Grid Azimuth	219 38 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740004A	1/7/2003	AHTD	WOODRUFF	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,241.9771
Easting (M)	481,278.0990
Elevation (M)*	
Northing (SFT)	335,438.8865
Easting (SFT)	1,578,993.2298
Elevation (SFT)*	
Convergence Angle	0 31 10.9893813
Scale Factor	0.999952690
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 15 5.7467232
Longitude	91 6 24.6843360
Ellipsoid Height (M):	37.301
Geoid Height (M):	-27.192

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 269, LOCATED WEST OF MORTON, GO WEST ON HIGHWAY 64 0.35 MI TO THE STATION ON THE LEFT NEAR A FIELD ROAD AND A GATE. THE STATION IS SOUTH 18.30 METERS OF THE CENTER OF HIGHWAY 64 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740004A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	114	17.00	55.8
MK # 2	FOUR INCH PIPE GATE POST	234	5.60	18.4
MK # 3				

AZ Mark Station	740004A
Geodetic Azimuth	40 09 56
Grid Azimuth	39 38 45

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740005	1/7/2003	AHTD	WOODRUFF	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,260.3851
Easting (M)	486,102.2250
Elevation (M)*	
Northing (SFT)	335,499.2801
Easting (SFT)	1,594,820.3832
Elevation (SFT)*	
Convergence Angle	0 33 2.0362643
Scale Factor	0.999952714
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	4.8819492
Longitude	91	3	13.8490560
Ellipsoid Height (M):	39.596		
Geoid Height (M):	-27.166		

Location Description

TO REACH THE STATION FROM THE CROSS-WOODRUFF COUNTY LINE AND U.S. STATE HIGHWAY 64 GO WEST ON 64 FOR 0.75 MI TO THE STATION ON THE RIGHT NEAR SOME GRAIN STORAGE BINS AND A TURN IN FOR THE BINS. THE STATION IS 17.90 METERS NORTH OF THE CENTER OF THE HIGHWAY AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740005 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	276	8.30	27.2
MK # 2	SOUTHEAST CORNER OF WOODEN STORAGE BLDG	333	19.00	62.3
MK # 3				

AZ Mark Station	740005A
Geodetic Azimuth	90 55 33
Grid Azimuth	90 22 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740005A	1/7/2003	AHTD	WOODRUFF	64	110423

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	102,256.4841
Easting (M)	486,698.1000
Elevation (M)*	
Northing (SFT)	335,486.4816
Easting (SFT)	1,596,775.3498
Elevation (SFT)*	

Convergence Angle	0	33	15.7513288
Scale Factor	0.999952722		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	15	4.5689220
Longitude	91	2	50.2795680
Ellipsoid Height (M):	39.817		
Geoid Height (M):	-27.164		

Location Description

TO REACH THE STATION FROM THE CROSS-WOODRUFF COUNTY LINE AND U.S. STATE HIGHWAY 64 GO WEST ON 64 FOR 0.40 MI TO THE STATION ON THE LEFT. THE STATION IS 15.1 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 5.6 METERS SOUTH OF THE EDGE OF THE ASPH., 1.9 METERS NORTH OF THE TOP BANK OF A DITCH AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "740005A 2003" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	740005
Geodetic Azimuth	270 55 46
Grid Azimuth	270 22 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	480016
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740006	4/15/2010	AHTD	WOODRUFF	38	110541

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	75,030.2051	
Easting (M)	473,168.3330	
Elevation (M)*	58.992	
Northing (SFT)	246,161.5979	
Easting (SFT)	1,552,386.4392	
Elevation (SFT)*	193.543	

Convergence Angle	0	27	59.2150563
Scale Factor	0.999986346		
Elevation Adjust. Factor	0.9999907423		
Combined Adjust. Factor	0.9999770884		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	0	25.0179876
Longitude	91	11	54.2506056
Ellipsoid Height (M):	32.087		
Geoid Height (M):	-26.905		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 38 AND STATE HIGHWAY 49, NORTH OF BRINKLEY, GO WEST ON 38 FOR 2.8 MILES TO THE MARK ON THE LEFT, 15.6 FEET SOUTH FROM C/L OF HIGHWAY 38 AND 36.7 FEET NORTH OF THE WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "740006 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	107	24.39	80.0
MK # 2	POWER POLE WITH 2 GUYS	324	22.92	75.2
MK # 3				

AZ Mark Station	740006A
Geodetic Azimuth	359 59 32
Grid Azimuth	359 31 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	MSOX

Comments

DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 4/2010 USING D 85, B 74, A 74. AFTER LEVELS WERE PROCESSED IT WAS DETERMINED THAT A 74 WAS 0.02 LOWER THAN PUBLISHED BY NGS. (PUBLISHED ELEV = 191.12 & PROCESSED ELEV = 191.1029.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740006A	4/5/2010	AHTD	WOODRUFF	CR 639	110541

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	75,592.4390	
Easting (M)	473,163.6780	
Elevation (M)*	59.376	
Northing (SFT)	248,006.1936	
Easting (SFT)	1,552,371.1669	
Elevation (SFT)*	194.802	

Convergence Angle	0	27	59.2132715
Scale Factor	0.999985466		
Elevation Adjust. Factor	0.9999906821		
Combined Adjust. Factor	0.9999761482		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	0	43.2632232
Longitude	91	11	54.2536728
Ellipsoid Height (M):	32.464		
Geoid Height (M):	-26.912		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 38 AND STATE HIGHWAY 49, NORTH OF BRINKLEY, GO WEST ON 38 FOR 2.8 MILES TO COUNTY ROAD 639 AND TURN RIGHT, COUNTINUE NORTH 0.32 MILES TO MARK ON RIGHT, 10 FEET EAST OF C/L OF CR 639, 11.3 FEET NORTH OF C/L FIELD ROAD, AND WEST 6.3 FEET WEST OF WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "740006A 2010" SET ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE WITH GUY	358	15.85	52.0
MK # 2				
MK # 3				

AZ Mark Station	740006A
Geodetic Azimuth	179 59 32
Grid Azimuth	179 31 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARLR
Ref Mon # 3	MSOX

Comments

DIGITAL 3 WIRE LEVELS RAN BY CREW S5112 4/2010 USING D 85, B 74, A 74. AFTER LEVELS WERE PROCESSED IT WAS DETERMINED THAT A 74 WAS 0.02 LOWER THAN PUBLISHED BY NGS. (PUBLISHED ELEV = 191.12 & PROCESSED ELEV = 191.1029.)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740007	9/1/2011	AHTD	WOODRUFF	64	050264

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	106,336.4797	
Easting (M)	454,671.3698	
Elevation (M)*	67.121	
Northing (SFT)	348,872.2671	
Easting (SFT)	1,491,700.9858	
Elevation (SFT)*	220.213	

Convergence Angle	0	20	59.1073576
Scale Factor	0.999949018		
Elevation Adjust. Factor	0.9999894666		
Combined Adjust. Factor	0.9999384851		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	17	25.1603916
Longitude	91	23	56.2102692
Ellipsoid Height (M):	39.770		
Geoid Height (M):	-27.375		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 33N, IN AUGUSTA, GO WEST ON HIGHWAY 64 FOR 2.3 MILES TO THE STATION MARK ON THE RIGHT, NORTH 44.9 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 6 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "740007 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	133	7.41	24.3
MK # 2	SOUTH OF GUARD RAIL	194	3.81	12.5
MK # 3				

AZ Mark Station	740007A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740007A	9/1/2011	AHTD	WOODRUFF	64	050264

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	106,275.7931	
Easting (M)	454,154.2895	
Elevation (M)*	66.174	
Northing (SFT)	348,673.1645	
Easting (SFT)	1,490,004.5315	
Elevation (SFT)*	217.105	

Convergence Angle	0	20	47.1905953
Scale Factor	0.999949064		
Elevation Adjust. Factor	0.9999896153		
Combined Adjust. Factor	0.9999386798		

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID09			
Latitude	35	17	23.2930932	
Longitude	91	24	16.6893552	
Ellipsoid Height (M):	38.820			
Geoid Height (M):	-27.374			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 33N, IN AUGUSTA, GO WEST ON HIGHWAY 64 FOR 2.6 MILES TO THE STATION MARK ON THE RIGHT, NORTH 38 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "740007A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	740007
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

DIGITAL THREE WIRE LEVELS WERE RAN BY GARVER FROM 7 B AZ MK AND Q 205 DURING JOB 050264 IN FEB 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740008	3/6/2023	ARDOT	WOODRUFF	17	110754

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,548.8832	0.0010
Easting (M)	473,471.8068	0.0010
Elevation (M)*		
Northing (SFT)	362,692.4610	
Easting (SFT)	1,553,382.0861	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	19	37.4833344	
Longitude	91	11	30.7852692	
Ellipsoid Height (M):	36.138			0.0050
Geoid Height (M):	-27.395			0.0050

Convergence Angle	0	28	12.8695151
Scale Factor	0.999945952		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 64 AND HWY 17 IN MCCRORY, HEAD NORTH ON HWY 17 FOR 4.0 MILES TO COUNTY ROAD 330. HEAD EAST/RIGHT ON COUNTY ROAD 330 FOR 0.4 MILES TO THE STATION ON THE LEFT. THE STATION IS 21.5FT NORTH OF THE CENTER LINE OF COUNTY ROAD 330. THE STATION MARK IS A 2 1/2IN CAP STAMPED "740008 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWERPOLE	63	2.30	7.5
MK # 2				
MK # 3				

AZ Mark Station	740008A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARSC, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740008A	3/6/2023	ARDOT	WOODRUFF	17	110754

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,553.6835	0.0010
Easting (M)	473,070.9380	0.0010
Elevation (M)*		
Northing (SFT)	362,708.2099	
Easting (SFT)	1,552,066.9024	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	19	37.7455656	
Longitude	91	11	46.6559484	
Ellipsoid Height (M):	36.059			0.0050
Geoid Height (M):	-27.396			0.0050

Convergence Angle	0	28	3.6343807
Scale Factor	0.999945946		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH FROM THE JCT. OF HWY 64 AND HWY 17 IN MCCRORY, HEAD NORTH ON HWY 17 FOR 4.0 MILES TO COUNTY ROAD 330. HEAD EAST/RIGHT ON COUNTY ROAD 330 FOR 0.15 MILES TO THE STATION ON THE LEFT. THE STATION IS 29.0FT NORTH OF THE CENTER LINE OF COUNTY ROAD 330, AND 13.1FT E OF A CEMETERY DRIVE WAYTHE STATION MARK IS A 2 1/2IN CAP STAMPED "740008A 2023" SET ONTOP OF A 5/8IN BY 4FT REBAR DRIVEN 0.10IN BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONCRETE PILLAR	213	0.60	2.0
MK # 2	POWERPOLE	300	8.30	27.2
MK # 3	CORA LEE JONES HEADSTONE	97	8.80	28.9

AZ Mark Station	740008
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARSC, ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740010	3/18/2024	ARDOT	WOODRUFF	33	01X463 110838

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	88,759.9580	0.0020
Easting (M)	460,625.7830	0.0020
Elevation (M)*	60.109	
Northing (SFT)	291,206.6289	
Easting (SFT)	1,511,236.4231	
Elevation (SFT)*	197.208	

Convergence Angle	0	23	13.5016080	
Scale Factor			0.999966950	
Elevation Adjust. Factor			0.9999905670	
Combined Adjust. Factor			0.9999575173	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	7	53.5705860	
Longitude	91	20	5.2522836	
Ellipsoid Height (M):			32.827	0.0080
Geoid Height (M):			-27.282	0.0080

Location Description

To reach from the junction of State Highways 262 and 33 North of Gregory, go South on Highway 33 for 3.0 miles to Woodruff County Road 758 on the Left/East. Go East on County Road 758 for 0.5 miles to the intersection of County Road 758 and 719. The station is in the Northeast corner of the intersection. It is 35.5ft. North of the center of County Road 758, and 22.6 East of the center of 719. The station mark is a standard 2 1/2in. aluminium cap stamped "740010 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" CMP UNDER 719	342	5.10	16.7
MK # 2				
MK # 3				

AZ Mark Station	740010A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARLR, ARWY

Comments

STATIC DERIVED ELEV. 197.2076 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARBT, ARJB, ARLR & ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740010A	3/18/2024	ARDOT	WOODRUFF	33	01X463 110838

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	88,757.7742	0.0020
Easting (M)	460,230.3252	0.0020
Elevation (M)*	59.766	
Northing (SFT)	291,199.4642	
Easting (SFT)	1,509,938.9919	
Elevation (SFT)*	196.083	

Convergence Angle	0	23	4.4118302	
Scale Factor			0.999966949	
Elevation Adjust. Factor			0.9999906208	
Combined Adjust. Factor			0.9999575701	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	7	53.5861344	
Longitude	91	20	20.8731660	
Ellipsoid Height (M):			32.477	0.0080
Geoid Height (M):			-27.284	0.0080

Location Description

To reach from the junction of State Highways 262 and 33 North of Gregory, go South on Highway 33 for 3.0 miles to Woodruff County Road 758 on the Left/East. Go East on County Road 758 for 0.25 miles to the station on the left/North. It is 19.8ft. North of the center of County Road 758. The station mark is a standard 2 1/2in. aluminium cap stamped "740010A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SERVICE POLE	248	4.50	14.8
MK # 2	COMBINATION POLE TRIPLE TRANSFORME RS	202	12.60	41.3
MK # 3				

AZ Mark Station	740010
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARLR, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM GPS #740010 WHOSE ELEVATION IS STATIC DERIVED. LEVELED ELEVATION IS 196.0828 US FT AND THE STATIC DERIVED ELEV. IS 196.0675 US FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740011	3/18/2024	ARDOT	WOODRUFF	269	01X337, 110842

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	106,567.1130	0.0010
Easting (M)	476,038.5064	0.0010
Elevation (M)*		
Northing (SFT)	349,628.9366	
Easting (SFT)	1,561,802.9997	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	17	27.5846280	
Longitude	91	9	50.4967212	
Ellipsoid Height (M):	37.708			0.0050
Geoid Height (M):	-27.360			0.0050

Convergence Angle	0	29	11.2273338
Scale Factor	0.999948958		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the junction of State Highways 37 and 269 North of McCrory go East on Highway 269 for 1.45 miles to Woodruff County Road 372. Go South on 372 for 0.4 miles to the station on the Left/East. The station is 21.2ft East of Woodruff County Road 372. The station mark is a standard 2 1/2in. aluminium cap stamped "740011 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	740011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARLR, ARWY

Comments

STATIC DERIVED ELEV. 213.4756 US FT. CONSTRAINED ORTHOMETRIC HTS. ON ARDOT CORS ARBT, ARJB, ARLR & ARWY

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
740011A	3/18/2024	ARDOT	WOODRUFF	269	01X337, 110842

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	107,047.7210	0.0010
Easting (M)	476,026.0458	0.0010
Elevation (M)*		
Northing (SFT)	351,205.7313	
Easting (SFT)	1,561,762.1186	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	17	43.1831796	
Longitude	91	9	50.8283964	
Ellipsoid Height (M):	38.138			0.0050
Geoid Height (M):	-27.363			0.0050

Convergence Angle	0	29	11.0343323
Scale Factor	0.999948576		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the junction of State Highways 37 and 269 North of McCrory go East on Highway 269 for 1.45 miles to Woodruff County Road 372. Go South on 372 for 0.15 miles to the station on the Right/West. The station is 23.8ft West of Woodruff County Road 372. The station mark is a standard 2 1/2in. aluminium cap stamped "740011A 2024" and set on top of a 5/8in. rebar driven 0.10in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	0	2.10	6.9
MK # 2				
MK # 3				

AZ Mark Station	740011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARLR, ARWY

Comments

ELEV. 214.8886 US FT BASED ON DIGITAL LEVELS FROM GPS #740011 WHOSE ELEV. IS BASED ON STATIC DERIVED. STATIC DERIVED ELEV. ON 740011A IS 214.8959 US FT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750001	10/28/1991	AHTD	YELL	10	008826, 8927,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,465.7364	0.0063
Easting (M)	272,667.3823	0.0062
Elevation (M)*	102.878	
Northing (SFT)	267,275.5035	
Easting (SFT)	894,576.2368	
Elevation (SFT)*	337.526	

Convergence Angle	0	48	44.2494528
Scale Factor	0.999977594		
Elevation Adjust. Factor	0.9999838553		
Combined Adjust. Factor	0.9999614497		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	3	34.2266904
Longitude	93	23	45.3542424
Ellipsoid Height:	73.419		
Grid Northing (Meters)	81,465.7301		
Grid Easting (Meters)	272,667.3910		

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	35	3	34.2268920
Longitude	93	23	45.3545880
Ellipsoid Height (M):	73.276		0.0131
Geoid Height (M):	-29.598		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 10, LOCATED ON THE NORTHWEST SIDE OF DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.485 METERS SOUTH OF THE CENTER OF HIGHWAY 10 AND 0.48 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "91750001" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CAP IN BRIDGE	120	9.78	32.1
MK # 2	GUARD RAIL POST	103	2.58	8.5
MK # 3	GUARD RAIL POST	326	2.74	9.0

AZ Mark Station	750001A
Geodetic Azimuth	348 23 18.01432
Grid Azimuth	349 12 02.27438

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

OLD PN: 91750001 ELEVATION ON THIS STATION WAS ARRIVED AT BY CREW S5101.SURFACE ADJUSTMENT FACTOR FOR JOB R80019 = 0.999960444. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750001A	5/21/1998	AHTD	YELL	10	008826, 8927,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,824.4328	0.0063
Easting (M)	272,598.9684	0.0062
Elevation (M)*	102.866	
Northing (SFT)	268,452.3266	
Easting (SFT)	894,351.7822	
Elevation (SFT)*	337.485	

Convergence Angle	0	48	45.9372420
Scale Factor			0.999977084
Elevation Adjust. Factor			0.9999838573
Combined Adjust. Factor			0.9999609417

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	3	45.8337960
Longitude	93	23	48.2549676
Ellipsoid Height:			73.387
Grid Northing (Meters)			81,824.4261
Grid Easting (Meters)			272,598.9710

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID09			
Latitude	35	3	45.8340120	
Longitude	93	23	48.2550720	
Ellipsoid Height (M):			73.256	0.0130
Geoid Height (M):			-29.602	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 27 AND STATE HIGHWAY 10, LOCATED ON THE NORTHWEST SIDE OF DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 8.18 METERS SOUTH OF A BRIDGE, 7.41 METERS EAST OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750001A 1998" SET ON TOP OF AN ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUARD RAIL POST	327	1.65	5.4
MK # 2	GUARD RAIL POST	200	2.71	8.9
MK # 3	GUARD RAIL POST	187	6.40	21.0

AZ Mark Station	91750001
Geodetic Azimuth	168 23 16.34798
Grid Azimuth	169 12 02.27438

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750002	10/28/1991	AHTD	YELL	10	8927

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1986)	
Northing (M)	81,558.8451	
Easting (M)	276,160.5450	
Elevation (M)*		
Northing (SFT)	267,580.9776	
Easting (SFT)	906,036.7214	
Elevation (SFT)*		

Convergence Angle	0	47	24.0672300
Scale Factor	0.999977391		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	3	38.8329444
Longitude	93	21	27.5605632
Ellipsoid Height (M):	86.825		
Geoid Height (M):	-29.966		

Location Description

FROM THE JCT. OF HWY. 27 AND HWY. 10 IN DANVILLE, GO EAST ON HWY. 10 2.29 MILES TO THE STATION ON THE LEFT. THE STATION IS 33.5 FEET NORTH OF THE EDGE OF HWY. 10, 7 FEET NORTHEAST OF A FENCE CORNER AND 4 FEET EAST OF A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN COMBINATION POLE	68	9.25	30.4
MK # 2	NBC IN CORNER FENCE POST	220	2.11	6.9
MK # 3	NBC IN FENCE BRACE POST	290	1.41	4.6

AZ Mark Station	91750002A AZ. MK.
Geodetic Azimuth	243 42 29
Grid Azimuth	244 29 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	RUSSPORT
Ref Mon # 3	POWELL

Comments

OLD PN: 91750002

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750002A	10/28/1991	AHTD	YELL	10	8927

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	81,382.7171	
Easting (M)	275,791.3190	
Elevation (M)*		
Northing (SFT)	267,003.1310	
Easting (SFT)	904,825.3524	
Elevation (SFT)*		

Convergence Angle	0	47	32.4897729
Scale Factor	0.999977650		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	3	32.9526540
Longitude	93	21	42.0347952
Ellipsoid Height (M):	86.403		
Geoid Height (M):	-29.970		

Location Description

FROM THE JCT. OF HWY. 27 AND HWY. 10 IN DANVILLE, GO EAST ON HWY. 10 2.04 MILES AND STATION ON THE RIGHT. THE STATION IS 28 FEET SOUTH OF THE EDGE OF HWY. 10, 166 FEET WEST OF A FIELD ENTRANCE AND NEAR THE MAIL BOX OF E. MARTIN AND 1 FEET NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN FENCE POST	70	4.07	13.4
MK # 2	NBC IN FENCE POST	84	1.43	4.7
MK # 3	NBC IN FENCE POST	223	1.75	5.8

AZ Mark Station	91750002
Geodetic Azimuth	63 42 21
Grid Azimuth	64 29 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	RUSSPORT
Ref Mon # 3	POWELL

Comments

OLD PN: 91750002A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750003	12/23/1991	AHTD	YELL	10	R80025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	77,102.7260
Easting (M)	298,037.4130
Elevation (M)*	
Northing (SFT)	252,961.1936
Easting (SFT)	977,811.0792
Elevation (SFT)*	
Convergence Angle	0 39 0.5348968
Scale Factor	0.999983568
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	1	23.1640248
Longitude	93	7	2.2347552
Ellipsoid Height (M):	76.719		
Geoid Height (M):	-29.516		

Location Description

FROM THE YELL AND PERRY COUNTY LINE, GO WEST 0.65 MILES TO THE STATION ON THE RIGHT. THE STATION IS 68 FEET NORTH OF THE CENTERLINE OF HWY. 10, 101 FEET SOUTH OF THE CENTERLINE OF A R/R TRACK, 257 FEET NORTHEAST OF THE NORTH HEADWALL OF A CROSSDRAIN AND 52 FEET SOUTH OF A WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NBC IN 4" PEAR TREE	71	11.35	37.2
MK # 2	NBC IN GUY POLE	178	10.92	35.8
MK # 3	NBC IN TOP OF CORNER FENCE POST	230	45.25	148.5

AZ Mark Station	91750003A AZ. MK.
Geodetic Azimuth	92 39 08
Grid Azimuth	93 18 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91750003

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750003A	12/23/1991	AHTD	YELL	10	R80025

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	77,081.7260	
Easting (M)	298,401.3360	
Elevation (M)*		
Northing (SFT)	252,892.2961	
Easting (SFT)	979,005.0499	
Elevation (SFT)*		

Convergence Angle	0	38	52.1763658
Scale Factor	0.999983594		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	1	22.6163748
Longitude	93	6	47.8705284
Ellipsoid Height (M):	76.289		
Geoid Height (M):	-29.508		

Location Description

FROM THE YELL AND PERRY COUNTY LINE, GO WEST ON HWY. 10 0.42 MILES TO THE STATION ON THE LEFT. THE STATION IS 40 FEET SOUTH OF THE CENTERLINE OF HWY. 10, 130 FEET SOUTH OF THE CENTERLINE OF A R/R TRACK, 547 FEET SOUTHWEST OF THE HEADWALL OF A CROSSDRAIN AND 1.80 FEET NORTH OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NBC IN 30" POST OAK	313	33.81	110.9
MK # 2	NBC IN 12" RED OAK	356	25.18	82.6
MK # 3	NBC IN 10" ELM	35	31.81	104.4

AZ Mark Station	91750003
Geodetic Azimuth	272 39 17
Grid Azimuth	273 18 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	NONE

Comments

OLD PN: 91750003A

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750004	10/19/1994	AHTD	YELL	10	008940

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	76,395.5383	
Easting (M)	293,312.7567	
Elevation (M)*	117.095	
Northing (SFT)	250,641.0286	
Easting (SFT)	962,310.2693	
Elevation (SFT)*	384.169	

Convergence Angle	0	40	48.7859456
Scale Factor			0.999984740
Elevation Adjust. Factor			0.9999816243
Combined Adjust. Factor			0.9999663646

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	0	58.4539380
Longitude	93	10	8.2560468
Ellipsoid Height:			87.503
Grid Northing (Meters)			76,396.0490
Grid Easting (Meters)			293,312.9990

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:	Geoid09			
Latitude	35	0	58.4372736	
Longitude	93	10	8.2653636	
Ellipsoid Height (M):			88.109	
Geoid Height (M):			-29.132	

Location Description

FROM THE JCT. OF HWY. 10 AND HWY. 28 ON THE SOUTH EDGE OF THE TOWN OF OLA, GO EAST ON HWY. 10 FOR 5.272 KM (3.27 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 10.90 METERS SOUTH OF THE CENTERLINE OF HWY. 10 AND 2.70 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "750004" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	186	7.20	23.6
MK # 2	TELEPHONE JUNCTION BOX	337	22.30	73.2
MK # 3	COMBINATION POLE	173	3.00	9.8

AZ Mark Station	750004A
Geodetic Azimuth	269 15 48.70567
Grid Azimuth	269 56 37.55699

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	91750003

Comments

Cross Reference Job: 8929 & R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 750004 AND 750004A = 443.648 METERS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750004A	10/19/1994	AHTD	YELL	10	008940

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	76,395.6131	
Easting (M)	292,869.3660	
Elevation (M)*	118.741	
Northing (SFT)	250,641.2740	
Easting (SFT)	960,855.5783	
Elevation (SFT)*	389.569	

Convergence Angle	0	40	58.9621247
Scale Factor	0.999984748		
Elevation Adjust. Factor	0.9999813660		
Combined Adjust. Factor	0.9999661143		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	0	58.2685308
Longitude	93	10	25.7532384
Ellipsoid Height (M):	89.141		
Geoid Height (M):	-29.600		

Location Description

FROM THE JCT. OF HWY. 10 AND HWY. 28 ON THE SOUTH EDGE OF THE TOWN OF OLA, GO EAST ON HWY. 10 FOR 4.828 KM (3.0 MILES) TO THE STATION ON THE LEFT. THE STATION IS IN FRONT OF THE AMERICAN LEGION HUT NO. 56 ON THE SOUTH EDGE OF THE PARKING LOT, 10.10 METERS NORTH OF THE CENTERLINE OF HWY. 10, 19.33 METERS SOUTH OF THE DOOR INTO THE THE LEGION HUT, 14.60 METERS WEST OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "750004A" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	2" FLAG POLE	334	17.35	56.9
MK # 2	TELEPHONE JUNCTION BOX	85	20.40	66.9
MK # 3	NONE			

AZ Mark Station	750004
Geodetic Azimuth	89 15 38.66564
Grid Azimuth	89 56 37.55699

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	JEANPORT
Ref Mon # 3	91750003

Comments

Cross Reference Job: 8929 & R80025 HORIZONTAL DISTANCE BY E.D.M. BETWEEN 750004 AND 750004A = 443.648 METERS

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750005	5/21/1998	AHTD	YELL	7	008826,080309,080385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	78,664.2270	
Easting (M)	288,679.9370	
Elevation (M)*	121.786	
Northing (SFT)	258,084.2181	
Easting (SFT)	947,110.7600	
Elevation (SFT)*	399.561	

Convergence Angle	0	42	35.7573131
Scale Factor	0.999981377		
Elevation Adjust. Factor	0.9999808881		
Combined Adjust. Factor	0.9999622655		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	2	10.2275592
Longitude	93	13	12.0968256
Ellipsoid Height (M):	92.709		
Geoid Height (M):	-29.119		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO NORTH ON STATE HIGHWAY 7 FOR 0.53 KM (0.33 MI) TO THE STATION ON THE LEFT ON TOP OF A HILL. THE STATION IS 12.70 METERS NORTH OF THE CENTER OF HIGHWAY 7, 35.0 METERS SOUTHWEST OF THE CENTER OF A PAVED DRIVEWAY AND 0.40 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	38	25.70	84.3
MK # 2	WATER METER	5	11.00	36.1
MK # 3	GAS METER	243	18.70	61.4

AZ Mark Station	750005A
Geodetic Azimuth	65 11 53.983675
Grid Azimuth	65 54 29.63484

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750005A	5/21/1998	AHTD	YELL	7	008826,080309,080385

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	78,974.7581	
Easting (M)	289,374.4060	
Elevation (M)*	106.749	
Northing (SFT)	259,103.0189	
Easting (SFT)	949,389.1970	
Elevation (SFT)*	350.224	

Convergence Angle	0	42	19.9026513
Scale Factor	0.999980902		
Elevation Adjust. Factor	0.9999832480		
Combined Adjust. Factor	0.9999641503		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	2	20.5819476
Longitude	93	12	44.8504164
Ellipsoid Height (M):	77.645		
Geoid Height (M):	-29.112		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO NORTH ON STATE HIGHWAY 7 FOR 1.29 KM (0.80 MI) TO THE STATION ON THE RIGHT. THE STATION IS 42.50 METERS NORTHEAST OF THE CENTER OF A DRIVEWAY AND 0.80 METERS WEST-NORTHWEST OF A WITNESS POST IN A FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750005A" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	160	18.10	59.4
MK # 2				
MK # 3				

AZ Mark Station	750005
Geodetic Azimuth	245 12 09.62623
Grid Azimuth	245 54 29.63484

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750006	5/21/1998	AHTD	YELL	10	008826

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,877.6950	
Easting (M)	284,965.6640	
Elevation (M)*	105.055	
Northing (SFT)	268,627.0710	
Easting (SFT)	934,924.8493	
Elevation (SFT)*	344.668	

Convergence Angle	0	44	1.9677286
Scale Factor	0.999976772		
Elevation Adjust. Factor	0.9999835137		
Combined Adjust. Factor	0.9999602861		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	3	52.9784280
Longitude	93	15	40.2503652
Ellipsoid Height (M):	75.814		
Geoid Height (M):	-29.241		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 5.47 KM (3.40 MI) TO THE STATION ON THE RIGHT. THE STATION IS 27.708 METERS SOUTHWEST OF THE CENTER OF THE RAIL ROAD, 10.361 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750006 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEASTERN GATE POST	233	27.68	90.8
MK # 2	0.15 METER CHERRY TREE = TBM 926	110	41.04	134.6
MK # 3				

AZ Mark Station	750006A
Geodetic Azimuth	143 08 28.68010
Grid Azimuth	143 52 30.59541

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750006A	5/21/1998	AHTD	YELL	10	008826

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,395.5940	
Easting (M)	285,317.5390	
Elevation (M)*	101.840	
Northing (SFT)	267,045.3780	
Easting (SFT)	936,079.2925	
Elevation (SFT)*	334.120	

Convergence Angle	0	43	53.7458019
Scale Factor			0.999977451
Elevation Adjust. Factor			0.9999840182
Combined Adjust. Factor			0.9999614696

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	3	37.4814504
Longitude	93	15	26.1208944
Ellipsoid Height (M):	72.612		
Geoid Height (M):	-29.228		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 4.83 KM (3.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 91.10 METERS SOUTHEAST OF THE CENTER OF A DRIVEWAY, 11.400 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 10 AND 1.53 METERS NORTHEAST OF A WITNESS POST SET IN A WEB WIRE FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750006A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST END OF A 0.61 METER RCP	324	84.10	275.9
MK # 2				
MK # 3				

AZ Mark Station	750006
Geodetic Azimuth	323 08 36.79705
Grid Azimuth	323 52 30.59541

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750007	5/21/1998	AHTD	YELL	10	008826

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	82,452.9401	
Easting (M)	279,523.9170	
Elevation (M)*	104.366	
Northing (SFT)	270,514.3543	
Easting (SFT)	917,071.3844	
Elevation (SFT)*	342.407	

Convergence Angle	0	46	7.1096795
Scale Factor	0.999976062		
Elevation Adjust. Factor	0.9999836218		
Combined Adjust. Factor	0.9999596842		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	9.3283248
Longitude	93	19	15.3081732
Ellipsoid Height (M):	75.028		
Geoid Height (M):	-29.338		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 11.10 KM (6.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.74 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 14.70 METERS NORTH THE CENTER OF STATE HIGHWAY 10, 7.377 METERS EAST OF THE CENTER OF A DRIVE AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "750007 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	81	26.60	87.3
MK # 2	POWER POLE	81	6.40	21.0
MK # 3				

AZ Mark Station	750007A
Geodetic Azimuth	83 09 07.95190
Grid Azimuth	83 55 14.98803

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750007A	5/21/1998	AHTD	YELL	10	008826

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	82,507.1780	
Easting (M)	280,033.1870	
Elevation (M)*	114.228	
Northing (SFT)	270,692.2998	
Easting (SFT)	918,742.2143	
Elevation (SFT)*	374.763	

Convergence Angle	0	45	55.4307378
Scale Factor	0.999975976		
Elevation Adjust. Factor	0.9999820742		
Combined Adjust. Factor	0.9999580507		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	11.3094264
Longitude	93	18	55.2377844
Ellipsoid Height (M):	84.898		
Geoid Height (M):	-29.330		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 7, LOCATED IN OLA, GO WEST ON STATE HIGHWAY 10 FOR 10.62 KM (6.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 15.228 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 10.86 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750007A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE = TBM 916	268	8.61	28.2
MK # 2	GAS METER	82	34.87	114.4
MK # 3	WATER METER	67	9.11	29.9

AZ Mark Station	750007
Geodetic Azimuth	263 09 19.48375
Grid Azimuth	263 55 14.98803

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750008	5/21/1998	AHTD	YELL	10	008826

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,544.4741	
Easting (M)	276,131.0350	
Elevation (M)*	116.896	
Northing (SFT)	267,533.8288	
Easting (SFT)	905,939.9040	
Elevation (SFT)*	383.516	

Convergence Angle	0	47	24.7403136
Scale Factor	0.999977412		
Elevation Adjust. Factor	0.9999816555		
Combined Adjust. Factor	0.9999590680		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	3	38.3534424
Longitude	93	21	28.7172648
Ellipsoid Height (M):	87.500		
Geoid Height (M):	-29.396		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10, STATE HIGHWAY 27 AND STATE HIGHWAY 80, LOCATED IN DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 3.54 KM (2.20 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.42 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.86 METERS SOUTH OF A WITNESS POST SET IN A BARBED WIRE FENCELINE. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750008 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	56	31.86	104.5
MK # 2	R/W MARKER AT CORNER OF A FENCE	117	29.16	95.7
MK # 3				

AZ Mark Station	750008A
Geodetic Azimuth	74 52 35.88395
Grid Azimuth	75 40 00.52611

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750008A	5/21/1998	AHTD	YELL	10	008826

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	81,715.7131	
Easting (M)	276,801.2100	
Elevation (M)*	108.797	
Northing (SFT)	268,095.6354	
Easting (SFT)	908,138.6365	
Elevation (SFT)*	356.945	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	3	44.2087740	
Longitude	93	21	2.3635980	
Ellipsoid Height (M):	79.413			
Geoid Height (M):	-29.384			

Convergence Angle	0	47	9.4051379	
Scale Factor	0.999977155			
Elevation Adjust. Factor	0.9999829265			
Combined Adjust. Factor	0.9999600819			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10, STATE HIGHWAY 27 AND STATE HIGHWAY 80, LOCATED IN DANVILLE, GO EAST ON STATE HIGHWAY 10 FOR 4.19 KM (2.60 MI) TO THE STATION ON THE LEFT. THE STATION IS 21.0 METERS SOUTH OF THE CENTER OF THE RAIL ROAD, 17.52 METERS EAST OF THE CENTER OF A PAVED ENTRANCE, 11.95 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750008A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	750008
Geodetic Azimuth	254 52 51.02293
Grid Azimuth	255 40 00.52611

Area Reference Monuments (used for Processing)

Ref Mon # 1	CLARPORT
Ref Mon # 2	Q 299
Ref Mon # 3	RUSSPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750009	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	89,861.4511	
Easting (M)	247,269.4080	
Elevation (M)*	185.205	
Northing (SFT)	294,820.4442	
Easting (SFT)	811,249.7161	
Elevation (SFT)*	607.627	

Convergence Angle	0	58	30.7033013	
Scale Factor	0.999966942			
Elevation Adjust. Factor	0.9999709361			
Combined Adjust. Factor	0.9999378791			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	7	53.7811032	
Longitude	93	40	33.1819248	
Ellipsoid Height (M):	155.473			
Geoid Height (M):	-29.736			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 4.35 KM (2.7 MI) TO THE STATION ON THE RIGHT. THE STATION IS 32.394 METERS EAST OF THE CENTER OF A ROAD TO A CHICKEN HOUSE, 11.237 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750009 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE JUNCTION BOX	150	30.11	98.8
MK # 2	0.508 METER PECAN TREE	87	30.31	99.4
MK # 3	CHISELED SQUARE IN HEADWALL = TBM 9 00	261	45.22	148.4

AZ Mark Station	750009A
Geodetic Azimuth	106 22 55.62235
Grid Azimuth	107 21 26.25310

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

ELEVATION ON THIS STATION WAS ESTABLISHED BY 3 WIRE LEVELING FROM USC&GS BENCH MARK J 46 1934.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750009A	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	89,684.3391	
Easting (M)	247,836.0520	
Elevation (M)*	175.869	
Northing (SFT)	294,239.3692	
Easting (SFT)	813,108.7806	
Elevation (SFT)*	576.997	

Convergence Angle	0	58	17.6117566	
Scale Factor	0.999967149			
Elevation Adjust. Factor	0.9999724012			
Combined Adjust. Factor	0.9999395511			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	7	48.3469824	
Longitude	93	40	10.6839624	
Ellipsoid Height (M):	146.119			
Geoid Height (M):	-29.731			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO WEST ON STATE HIGHWAY 10 FOR 3.78 KM (2.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.50 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE, 8.65 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.93 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750009A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRON PIPE GATE POST	112	9.06	29.7
MK # 2	CROSS TIE GATE POST	53	25.15	82.5
MK # 3				

AZ Mark Station	750007
Geodetic Azimuth	286 23 08.56871
Grid Azimuth	287 21 26.25310

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750010	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,662.3571	
Easting (M)	253,678.2940	
Elevation (M)*	116.542	
Northing (SFT)	287,605.5833	
Easting (SFT)	832,276.2029	
Elevation (SFT)*	382.355	

Convergence Angle	0	56	2.5897443
Scale Factor	0.999969576		
Elevation Adjust. Factor	0.9999817111		
Combined Adjust. Factor	0.9999512877		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	6	45.8948952
Longitude	93	36	18.6471612
Ellipsoid Height (M):	86.849		
Geoid Height (M):	-29.693		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO EAST ON STATE HIGHWAY 10 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 8.771 METERS EAST OF THE CENTER OF A DRIVEWAY, 8.563 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 8.454 METERS WEST OF THE CENTER OF A PASTURE ENTRANCE AND 3.11 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750010 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	190	13.92	45.7
MK # 2	WOODEN GATE POST	101	6.93	22.7
MK # 3				

AZ Mark Station	750010A
Geodetic Azimuth	259 47 10.72006
Grid Azimuth	260 43 13.38516

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750010A	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,569.2371	
Easting (M)	253,108.3750	
Elevation (M)*	119.177	
Northing (SFT)	287,300.0721	
Easting (SFT)	830,406.3936	
Elevation (SFT)*	391.000	

Convergence Angle	0	56	15.6495858
Scale Factor	0.999969708		
Elevation Adjust. Factor	0.9999812976		
Combined Adjust. Factor	0.9999510062		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	6	42.5714688
Longitude	93	36	41.0906412
Ellipsoid Height (M):	89.477		
Geoid Height (M):	-29.700		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 SOUTH, IN WAVELAND, GO EAST ON STATE HIGHWAY 10 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT. THE STATION IS 22.819 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 15.219 METERS WEST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.722 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750010A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE	54	4.36	14.3
MK # 2	COMBINATION POLE	255	16.01	52.5
MK # 3	TELEPHONE JUNCTION BOX	127	24.31	79.7

AZ Mark Station	750010
Geodetic Azimuth	79 46 57.81100
Grid Azimuth	80 43 13.38516

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750011	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,248.6391	
Easting (M)	260,635.5740	
Elevation (M)*	114.504	
Northing (SFT)	286,248.2434	
Easting (SFT)	855,101.8790	
Elevation (SFT)*	375.669	

Convergence Angle	0	53	22.5846176
Scale Factor	0.999969967		
Elevation Adjust. Factor	0.9999820309		
Combined Adjust. Factor	0.9999519985		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	6	36.0641376
Longitude	93	31	43.6766052
Ellipsoid Height (M):	84.908		
Geoid Height (M):	-29.631		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 309 NORTH, IN HAVANNA, GO EAST ON STATE HIGHWAY 10 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF FERGUSON STREET AND THE STATION ON THE LEFT. THE STATION IS 42.961 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 11.224 METERS EAST OF THE CENTER OF FERGUSON STREET AND 0.39 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A SANDARD 64mm CAP STAMPED "750011 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SW CORNER OF A PAVILLION CONCRETE S LAB	72	22.86	75.0
MK # 2	TELEPHONE JUNCTION BOX	189	28.85	94.6
MK # 3				

AZ Mark Station	750011A
Geodetic Azimuth	114 36 30.73793
Grid Azimuth	115 29 53.24950

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750011A	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	86,989.5641	
Easting (M)	261,178.7810	
Elevation (M)*	114.221	
Northing (SFT)	285,398.2616	
Easting (SFT)	856,884.0507	
Elevation (SFT)*	374.740	

Convergence Angle	0	53	10.0116874
Scale Factor	0.999970292		
Elevation Adjust. Factor	0.9999820753		
Combined Adjust. Factor	0.9999523679		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	6	27.9312552
Longitude	93	31	22.0698876
Ellipsoid Height (M):	84.625		
Geoid Height (M):	-29.628		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHTWAY 309 NORTH, IN HAVANNA, GO EAST ON STATE HIGHWAY 10 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT. THE STATION IS 9.431 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750011A 1998" SET ON TOP OF AN IRON ROAD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	0.305 METER PINE TREE	100	23.08	75.7
MK # 2	LIGHT POLE	158	30.21	99.1
MK # 3	COMBINATION POLE	291	42.52	139.5

AZ Mark Station	750011
Geodetic Azimuth	294 36 43.16466
Grid Azimuth	295 29 53.24950

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750012	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,893.7961	
Easting (M)	265,887.7790	
Elevation (M)*	113.860	
Northing (SFT)	281,803.2294	
Easting (SFT)	872,333.4883	
Elevation (SFT)*	373.556	

Convergence Angle	0	51	21.4425439
Scale Factor	0.999971634		
Elevation Adjust. Factor	0.9999821320		
Combined Adjust. Factor	0.9999537665		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	54.7004400
Longitude	93	28	15.4926300
Ellipsoid Height (M):	84.313		
Geoid Height (M):	-29.580		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO WEST ON STATE HIGHWAY 10 FOR 2.09 KM (1.30 MI) TO THE STATION ON THE RIGHT. THE STATION IS 89.395 METERS WEST OF THE ENTRANCE TO A BASEBASLL FIELD, 10.669 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10 AND 1.33 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750012 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	IRON PIPE FENCE POST	103	30.25	99.3
MK # 2	IRON PIPE FENCE POST	355	1.57	5.2
MK # 3	IRON PIPE FENCE POST	286	31.21	102.4

AZ Mark Station	750012
Geodetic Azimuth	109 07 13.67247
Grid Azimuth	109 58 35.04825

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750012A	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,717.1390	
Easting (M)	266,373.7630	
Elevation (M)*	114.586	
Northing (SFT)	281,223.6469	
Easting (SFT)	873,927.9208	
Elevation (SFT)*	375.938	

Convergence Angle	0	51	10.2175261	
Scale Factor	0.999971859			
Elevation Adjust. Factor	0.9999820180			
Combined Adjust. Factor	0.9999538775			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	5	49.2036792	
Longitude	93	27	56.2023144	
Ellipsoid Height (M):	85.015			
Geoid Height (M):	-29.575			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO WEST ON STATE HIGHWAY 10 FOR 1.61 KM (1.00 MI) TO THE STATION ON THE LEFT. THE STATION IS 12.398 METERS EAST OF THE CENTER OF A GRAVEL DRIVEWAY, 11.496 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750012A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF A CONCRETE HEADWALL	85	20.94	68.7
MK # 2	COMBINATION POLE	283	19.80	65.0
MK # 3				

AZ Mark Station	750012
Geodetic Azimuth	289 07 24.76389
Grid Azimuth	289 58 35.04825

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750013	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	84,378.5431	
Easting (M)	270,273.0850	
Elevation (M)*	118.758	
Northing (SFT)	276,831.9368	
Easting (SFT)	886,720.9464	
Elevation (SFT)*	389.625	

Convergence Angle	0	49	40.1944028
Scale Factor			0.999973580
Elevation Adjust. Factor			0.9999813633
Combined Adjust. Factor			0.9999549438

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	7.6263972
Longitude	93	25	21.4965948
Ellipsoid Height (M):	89.239		
Geoid Height (M):	-29.519		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 1.45 KM (0.90 MI) TO THE BELLEVILLE DANVILLE AIRPORT ENTRANCE ON THE LEFT, GO LEFT NORTH PASS THOUGH A GATE ACROSS APRON AND CONNECTOR FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY, GO RIGHT EAST ON RUNWAY FOR 0.80 KM (0.50 MI) TO THE STATION ON THE RIGHT. THE STATION IS 38.155 METERS SOUTH OF THE CENTER OF THE RUNWAY, 23.482 METERS EAST OF THE CENTER OF A TURN AROUND AND 1.06 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDRD 64mm CAP STAMPED "750013 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	IRON PIPE FENCE POST	282	21.95	72.0
MK # 2	RUNWAY LIGHT	14	23.75	77.9
MK # 3	CENTER OF A CONCRETE HEADWALL	66	22.00	72.2

AZ Mark Station	750013A
Geodetic Azimuth	285 42 59.53403
Grid Azimuth	286 32 39.78846

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750013A	8/10/1998	AHTD	YELL	10	R80019

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	84,505.2921	
Easting (M)	269,846.3990	
Elevation (M)*	115.352	
Northing (SFT)	277,247.7792	
Easting (SFT)	885,321.0607	
Elevation (SFT)*	378.451	

Convergence Angle	0	49	50.0374253
Scale Factor			0.999973417
Elevation Adjust. Factor			0.9999818978
Combined Adjust. Factor			0.9999553153

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	11.5386216
Longitude	93	25	38.4119364
Ellipsoid Height (M):	85.826		
Geoid Height (M):	-29.526		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 307 NORTH, IN BELLEVILLE, GO EAST ON STATE HIGHWAY 10 FOR 1.45 KM (0.90 MI) TO THE BELLEVILLE DANVILLE AIRPORT ENTRANCE ON THE LEFT, GO LEFT NORTH PASS THOUGH A GATE, ACROSS APRON AND CONNECTOR FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY, GO RIGHT EAST ON RUNWAY FOR 0.40 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.499 METERS SOUTH OF THE CENTER OF THE RUNWAY AND 1.60 METERS NORTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "750013A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RUNWAY LIGHT	18	23.05	75.6
MK # 2	IRON PIPE FENCE POST	108	21.16	69.4
MK # 3				

AZ Mark Station	750013
Geodetic Azimuth	105 42 49.81102
Grid Azimuth	106 32 39.78846

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 299
Ref Mon # 2	OZARPORT
Ref Mon # 3	91750001

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750014	11/8/2004	AHTD	YELL	60	080286

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	71,320.5621	
Easting (M)	287,164.3790	
Elevation (M)*		
Northing (SFT)	233,990.8775	
Easting (SFT)	942,138.4668	
Elevation (SFT)*		

Convergence Angle	0	43	8.4331629
Scale Factor			0.999993032
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	58	11.3293776
Longitude	93	14	8.2506300
Ellipsoid Height (M):	88.800		
Geoid Height (M):	-29.004		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 60 iAND STATE HIGHWAY 28, IN PLAINVIEW, GO EAST ON HIGHWAY 60 3.8 iMILES TO THE STATION MARK ON THE LEFT, WEST 18.10 METERS OF A iDIRT DRIVE, 17.90 METERS NORTH OF THE CENTERLINE OF THE HIGHWAY iAND SOUTH 0.50 METERS OF A WITNESS POST. THE STATION MARK IS A iSTANDARD 64mm CAP STAMPED "750014 2004" ON TOP OF A 1.22 METER iIRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CULVERT	130	15.50	50.9
MK # 2	TELEPHONE RISER	112	32.80	107.6
MK # 3				

AZ Mark Station	750014A
Geodetic Azimuth	283 07 21
Grid Azimuth	283 50 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	DQUA
Ref Mon # 3	AHTD LROC

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750014A	11/8/2004	AHTD	YELL	60	080286

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	71,439.7380	
Easting (M)	286,680.6990	
Elevation (M)*		
Northing (SFT)	234,381.8738	
Easting (SFT)	940,551.5933	
Elevation (SFT)*		

Convergence Angle	0	43	19.5619963
Scale Factor	0.999992843		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	58	14.9989728
Longitude	93	14	27.3756516
Ellipsoid Height (M):	93.251		
Geoid Height (M):	-29.018		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 60 iAND STATE HIGHWAY 28, IN PLAINVIEW, GO EAST ON HIGHWAY 60 3.5 iMILES TO THE STATION MARK ON THE RIGHT, 12.65 METERS SOUTH OF iTHE CENTERLINE OF THE HIGHWAY AND NORTH 2.20 METERS OF A WITNESS iPOST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "750014A i2004" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE iGROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TELEPHONE RISER	115	17.30	56.8
MK # 2	POWER POLE	276	6.60	21.7
MK # 3	WEST END OF CULVERT	85	16.65	54.6

AZ Mark Station	750014
Geodetic Azimuth	103 07 10
Grid Azimuth	103 50 30

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	DQUA
Ref Mon # 3	AHTD LROC

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750015	11/21/2006	AHTD	Yell	7	080309,fa7519

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	83,598.4351
Easting (M)	291,356.7950
Elevation (M)*	95.190
Northing (SFT)	274,272.5325
Easting (SFT)	955,893.0849
Elevation (SFT)*	312.301

Convergence Angle	0	41	35.6769457
Scale Factor			0.999974263
Elevation Adjust. Factor			0.9999850619
Combined Adjust. Factor			0.9999593253

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	4	51.3952896
Longitude	93	11	28.8480588
Ellipsoid Height (M):	66.172		
Geoid Height (M):	-29.143		

Location Description

To reach the station from the junction of highways 7 and 10 in Ola go north on hwy-7 for 3.90 miles to the station on the right next to the right of way fence. 69.50 feet southeast of the center of hwy-7 and 3.0 feet west of a witness post. The station mark is a 2 1/2 inch cap stamped "750015 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	750015A
Geodetic Azimuth	48 25 33
Grid Azimuth	49 07 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	Russport
Ref Mon # 3	750005

Comments

3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750015A	11/21/2006	AHTD	Yell	7	080309

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	83,962.1281	
Easting (M)	291,776.9340	
Elevation (M)*	97.246	
Northing (SFT)	275,465.7486	
Easting (SFT)	957,271.4910	
Elevation (SFT)*	319.047	

Convergence Angle	0	41	26.1274308
Scale Factor	0.999973759		
Elevation Adjust. Factor	0.9999847392		
Combined Adjust. Factor	0.9999584986		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	5	3.3609804
Longitude	93	11	12.4371132
Ellipsoid Height (M):	68.226		
Geoid Height (M):	-29.136		

Location Description

To reach the station from the junction of highways 7 and 10 in Ola go north on hwy-7 for 4.20 miles to the station on the left next to the right of way fence. 53.0 feet northwest of the center of hwy-7 and 1.90 feet southeast of a witness post. The station mark is a 2 1/2 inch cap stamped "750015A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole with 2 guy wires	294	29.84	97.9
MK # 2	Wooden brace post	231	30.66	100.6
MK # 3				

AZ Mark Station	750015
Geodetic Azimuth	228 25 42
Grid Azimuth	229 07 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	Russport
Ref Mon # 3	750005

Comments

3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750016	11/21/2006	AHTD	Yell	154	080309,080377,fa7519

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,090.1161	
Easting (M)	293,387.1510	
Elevation (M)*	105.818	
Northing (SFT)	285,728.1559	
Easting (SFT)	962,554.3446	
Elevation (SFT)*	347.173	

Convergence Angle	0	40	49.9940967
Scale Factor			0.999969593
Elevation Adjust. Factor			0.9999833939
Combined Adjust. Factor			0.9999529874

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	6	45.4827456
Longitude	93	10	10.3415844
Ellipsoid Height (M):	76.826		
Geoid Height (M):	-29.131		

Location Description

To reach the station from the junction of highways 7 and 154 in Centerville go west on hwy-154 for 177 feet to the station on the left in an old parking area. 45.6 feet south of the center of hwy-154 and 1.50 feet north of a witness post. The station mark is a 2 1/2 inch cap stamped "750016 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole	72	16.76	55.0
MK # 2				
MK # 3				

AZ Mark Station	750016A
Geodetic Azimuth	273 44 51
Grid Azimuth	274 25 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	Russport
Ref Mon # 3	750005

Comments

3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750016A	11/21/2006	AHTD	Yell	154	080309,080377

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,130.4021	
Easting (M)	292,866.9270	
Elevation (M)*	105.902	
Northing (SFT)	285,860.3276	
Easting (SFT)	960,847.5763	
Elevation (SFT)*	347.446	

Convergence Angle	0	41	1.9589104
Scale Factor			0.999969549
Elevation Adjust. Factor			0.9999833808
Combined Adjust. Factor			0.9999529304

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	6	46.5889428
Longitude	93	10	30.9032472
Ellipsoid Height (M):	76.890		
Geoid Height (M):	-29.141		

Location Description

To reach the station from the junction of highways 7 and 154 in Centerville go west on hwy-154 for 0.30 miles to the station on the right. 35.1 feet north of the center of hwy-154, 32.4 feet east of a driveway and 1.60 feet south of a witness post.The station mark is a 2 1/2 inch cap stamped "750016A 2006" set on top of a 5/8 inch by 4 foot long rebar and is just below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Fire hydrant	337	5.15	16.9
MK # 2	Flag pole	177	23.98	78.7
MK # 3				

AZ Mark Station	750016
Geodetic Azimuth	93 44 40
Grid Azimuth	94 25 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	Russport
Ref Mon # 3	750005

Comments

3-wire levels ran by crew S5110 on 2-06-07 from NGS mark E 47.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750017	10/12/2010	AHTD	YELL	7	080377

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	91,093.6591	
Easting (M)	294,070.6740	
Elevation (M)*	112.862	
Northing (SFT)	298,863.1132	
Easting (SFT)	964,796.8696	
Elevation (SFT)*	370.280	

Convergence Angle	0	40	35.3742303
Scale Factor	0.999964634		
Elevation Adjust. Factor	0.9999822887		
Combined Adjust. Factor	0.9999469233		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	55.6519632
Longitude	93	9	45.2171844
Ellipsoid Height (M):	83.720		
Geoid Height (M):	-29.141		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 154 AND STATE HIGHWAY 7, IN CENTERVILLE, GO NORTH ON HIGHWAY 7 2.5 MILES TO THE STATION MARK ON THE LEFT, WEST OF THE CENTERLINE OF THE HIGHWAY 21.6 FEET AND EAST 22.5 FEET OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750017 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	750017A
Geodetic Azimuth	198 31 07
Grid Azimuth	199 11 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARFY
Ref Mon # 3	ARHP

Comments

DIGITAL 3 WIRE LEVELS FROM 750016A TO E 253 BY CREW S5110 ON 10-2010. 750016A ELEVATION BY S5110 USING 3 WIRE LEVEL FROM E 47.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750017A	10/12/2010	AHTD	YELL	7	080377

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	90,507.9292	
Easting (M)	293,866.7570	
Elevation (M)*	118.590	
Northing (SFT)	296,941.4311	
Easting (SFT)	964,127.8519	
Elevation (SFT)*	389.074	

Convergence Angle	0	40	39.9026747
Scale Factor	0.999965336		
Elevation Adjust. Factor	0.9999813897		
Combined Adjust. Factor	0.9999467263		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	8	36.5680608
Longitude	93	9	52.9993656
Ellipsoid Height (M):	89.448		
Geoid Height (M):	-29.142		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 154 AND STATE HIGHWAY 7, IN CENTERVILLE, GO NORTH ON HIGHWAY 7 2.2 MILES TO THE STATION MARK ON THE RIGHT, EAST OF THE CENTERLINE OF THE HIGHWAY 22.2 FEET AND SOUTH 32.7 FEET OF A ASPHAULT DRIVE. THE MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750017A 2010" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE CORNER	29	34.63	113.6
MK # 2				
MK # 3				

AZ Mark Station	750017
Geodetic Azimuth	18 31 03
Grid Azimuth	19 11 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARFY
Ref Mon # 3	ARHP

Comments

DIGITAL 3 WIRE LEVELS FROM 750016A TO E 253 BY CREW S5110 ON 10-2010. 750016A ELEVATION BY S5110 USING 3 WIRE LEVEL FROM E 47.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750018	10/3/2011	AHTD	YELL	27	080428,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	94,979.4540	0.0056
Easting (M)	286,528.6793	0.0055
Elevation (M)*	144.971	
Northing (SFT)	311,611.7587	
Easting (SFT)	940,052.8420	
Elevation (SFT)*	475.627	

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID09			
Latitude	35	10	58.7440200	
Longitude	93	14	45.1095360	
Ellipsoid Height (M):	115.599			0.0000
Geoid Height (M):	-29.372			

Convergence Angle	0	43	29.8813282
Scale Factor	0.999960307		
Elevation Adjust. Factor	0.9999772498		
Combined Adjust. Factor	0.9999375577		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 5.25 MILES TO THE STATION ON THE LEFT, SOUTHEAST 29.3 FEET OF THE CENTERLINE OF HIGHWAY 27 AND NORTHWEST 1.5 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750018 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	10	58.7443440
Longitude	93	14	45.1095360
Ellipsoid Height:	115.600		
Grid Northing (Meters)	94,979.4640		
Grid Easting (Meters)	286,528.6794		

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	28	12.64	41.5
MK # 2				
MK # 3				

AZ Mark Station	750018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevations updated from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750018A	10/3/2011	AHTD	YELL	27	080428

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	94,796.6531	
Easting (M)	286,001.3667	
Elevation (M)*	139.155	
Northing (SFT)	311,012.0194	
Easting (SFT)	938,322.8172	
Elevation (SFT)*	456.546	

Convergence Angle	0	43	41.9549623
Scale Factor	0.999960515		
Elevation Adjust. Factor	0.9999781624		
Combined Adjust. Factor	0.9999386783		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	35	10	52.5955800
Longitude	93	15	5.8582080
Ellipsoid Height (M):	109.776		
Geoid Height (M):	-29.380		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 5.55 MILES TO THE STATION ON THE RIGHT, EAST 40.8 FEET OF THE CENTERLINE OF SLO FORK ROAD, NORTH 23.1 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTH 15.8 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750018A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	340	6.43	21.1
MK # 2				
MK # 3				

AZ Mark Station	750018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750019	10/3/2011	AHTD	YELL	27	080428,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	93,074.1862	
Easting (M)	282,967.8676	
Elevation (M)*	115.328	
Northing (SFT)	305,360.8926	
Easting (SFT)	928,370.4123	
Elevation (SFT)*	378.373	

Convergence Angle	0	44	51.2004022
Scale Factor			0.999962488
Elevation Adjust. Factor			0.9999819016
Combined Adjust. Factor			0.9999443902

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	Geoid09			
Latitude	35	9	55.4381640	
Longitude	93	17	4.8572520	
Ellipsoid Height (M):	85.908			
Geoid Height (M):	-29.432			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 7.75 MILES TO THE STATION ON THE RIGHT, EAST 50.0 FEET OF THE CENTER OF A DRIVEWAY, SOUTH 20.3 FEET OF THE CENTER OF A GRAVEL DRIVEWAY AND NORTH 30.0 FEET OF THE CENTERLINE OF HIGHWAY 27. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750019 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	750019A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevations updated from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750019A	10/3/2011	AHTD	YELL	27	080428,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	92,834.6996	
Easting (M)	282,472.1652	
Elevation (M)*	109.711	
Northing (SFT)	304,575.1769	
Easting (SFT)	926,744.0953	
Elevation (SFT)*	359.942	

Convergence Angle	0	45	2.5258235
Scale Factor	0.999962770		
Elevation Adjust. Factor	0.9999827831		
Combined Adjust. Factor	0.9999455538		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	Geoid09		
Latitude	35	9	47.4571440
Longitude	93	17	24.3201120
Ellipsoid Height (M):	80.283		
Geoid Height (M):	-29.440		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 8.15 MILES TO THE STATION ON THE RIGHT,SOUTHWEST 70.9 FEET OF THE CENTER OF A PAVED DRIVEWAY, NORTHWEST 21.1 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTHEAST 18.3 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750019A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	265	11.34	37.2
MK # 2				
MK # 3				

AZ Mark Station	750019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750020	10/3/2011	AHTD	YELL	27	080428,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	89,925.9204	0.0055
Easting (M)	278,552.8321	0.0055
Elevation (M)*	122.292	
Northing (SFT)	295,031.9572	
Easting (SFT)	913,885.4166	
Elevation (SFT)*	401.220	

Convergence Angle	0	46	31.7339275
Scale Factor	0.999966276		
Elevation Adjust. Factor	0.9999808087		
Combined Adjust. Factor	0.9999470854		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	8	11.3817840
Longitude	93	19	57.6248160
Ellipsoid Height:	92.794		
Grid Northing (Meters)	89,925.9336		
Grid Easting (Meters)	278,552.8423		

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID09			
Latitude	35	8	11.3813520	
Longitude	93	19	57.6252120	
Ellipsoid Height (M):	92.767			0.0122
Geoid Height (M):	-29.510			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 11.10 MILES TO THE STATION ON THE LEFT. NORTHEAST 67.6 FEET OF THE CENTER OF A GRAVEL DRIVEWAY, NORTHWEST 22.0 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTHEAST 19.2 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750020 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	155	5.70	18.7
MK # 2	TELEPHONE BOX	80	15.97	52.4
MK # 3				

AZ Mark Station	750020A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750020A	10/3/2011	AHTD	YELL	27	080428,080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	89,815.8078	0.0061
Easting (M)	278,203.2155	0.0062
Elevation (M)*	122.396	
Northing (SFT)	294,670.6961	
Easting (SFT)	912,738.3829	
Elevation (SFT)*	401.561	

Convergence Angle	0	46	39.7353036
Scale Factor	0.999966416		
Elevation Adjust. Factor	0.9999807924		
Combined Adjust. Factor	0.9999472091		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	8	7.6549920
Longitude	93	20	11.3404920
Ellipsoid Height:	92.895		
Grid Northing (Meters)	89,815.8035		
Grid Easting (Meters)	278,204.1059		

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID09			
Latitude	35	8	7.6547400	
Longitude	93	20	11.3756640	
Ellipsoid Height (M):	92.842			0.0128
Geoid Height (M):	-29.515			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 27 SOUTH, IN DARDANELLE, GO SOUTH ON HIGHWAY 27 11.30 MILES TO THE STATION ON THE RIGHT. SOUTH 99.0 FEET OF THE CENTER OF GRAVEL DRIVEWAY, NORTHWEST 39.5 FEET OF THE CENTERLINE OF HIGHWAY 27 AND SOUTHEAST 8.4 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "750020A 2011" ON TOP OF A 4 FOOT REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	52	25.42	83.4
MK # 2	TELEPHONE BOX	241	36.58	120.0
MK # 3				

AZ Mark Station	750020
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEVATION WAS DETERMINED BY DIGITAL LEVELS FROM USGS 3RD ORDER MARKS UE 4B & UE 4D BY CLS DURING JOB 080428 IN MARCH 2012. Elevation updated by three wire levels from 75001, 75001A by B&F during job 080495 in 04/2015.04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750021	10/1/2014	AHTD	YELL	154	080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,634.0170	0.0044
Easting (M)	275,536.9261	0.0044
Elevation (M)*	118.714	
Northing (SFT)	280,950.9374	
Easting (SFT)	903,990.7317	
Elevation (SFT)*	389.481	

Convergence Angle	0	47	39.6847373	
Scale Factor	0.999971794			
Elevation Adjust. Factor	0.9999813702			
Combined Adjust. Factor	0.9999531648			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID09			
Latitude	35	5	50.7806880	
Longitude	93	21	54.3994200	
Ellipsoid Height (M):	89.140	0.0108		
Geoid Height (M):	-29.567			

Location Description

TO REACH FROM THE JUNCTION OF HWY 154 AND HWY 27 NEAR DANVILLE. GO EAST ON HWY 154 FOR 0.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 5 FT. SOUTH OF A WITNESS POST, AND 34 FT. NORTH OF THE CENTERLINE OF HWY 154. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "750021 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	285	21.00	68.9
MK # 2	POWER POLE	100	28.00	91.9
MK # 3	METAL FENCE POST	350	1.80	5.9

AZ Mark Station	750021A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	P777
Ref Mon # 3	SAL5

Comments

Elevation established by three wire levels from 75001, 75001A, by B&F during job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750021A	10/1/2014	AHTD	YELL	27	080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	85,890.3636	0.0043
Easting (M)	278,151.1375	0.0043
Elevation (M)*	113.785	
Northing (SFT)	281,791.9679	
Easting (SFT)	912,567.5236	
Elevation (SFT)*	373.308	

Convergence Angle	0	46	39.7075679
Scale Factor	0.999971408		
Elevation Adjust. Factor	0.9999821438		
Combined Adjust. Factor	0.9999535523		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None		
Elevation Datum:			
Geoid Datum:	GEOID09		
Latitude	35	6	0.2621520
Longitude	93	20	11.3280000
Ellipsoid Height (M):	84.223	0.0106	
Geoid Height (M):	-29.571		

Location Description

TO REACH FROM THE JUCTION OF HWY 27 AND HWY 154 NEAR DANVILLE. GO NORTH ON HWY 27 FOR 0.2 MILES TO THE STATION ON THE LEFT. THE STATION IS 3.4 FT. EAST OF A WITNESS POST, AND 36 FT. WEST OF THE CENTERLINE OF HWY 27. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "750021A 2014" SET ONTOP OF A 5/8 IN. BY 4 FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	235	20.00	65.6
MK # 2	POWER POLE	50	40.80	133.9
MK # 3	TELEPHONE BOX	165	23.50	77.1

AZ Mark Station	750021
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	P777
Ref Mon # 3	SAL5

Comments

Elevation established by three wire levels from 75001, 75001A, by B&F during job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750022	10/1/2014	AHTD	YELL	27	080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	97,582.3351	0.0040
Easting (M)	290,499.8574	0.0039
Elevation (M)*	126.207	
Northing (SFT)	320,151.3777	
Easting (SFT)	953,081.6155	
Elevation (SFT)*	414.064	

Convergence Angle	0	41	59.2832161	
Scale Factor	0.999957492			
Elevation Adjust. Factor	0.9999801944			
Combined Adjust. Factor	0.9999376873			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID09			
Latitude	35	12	24.8034240	
Longitude	93	12	9.4156920	
Ellipsoid Height (M):	96.889			0.0090
Geoid Height (M):	-29.307			

Location Description

TO REACH FROM THE INTERSECTION OF HWY 27 AND HWY. 7 IN DARDANELLE. GO SOUTH ON HWY 27 FOR 2.3 MILES TO THE STATION ON THE RIGHT. THE STATION IS 1 FT. NORTHWEST OF A WITNESS POST, AND 37 FT. NORTHWEST OF THE CENTERLINE OF HWY. 27. THE STATION MARK IS A 2 1/2 IN. CAP STAMPED "750022 2014" SET ONTOP OF A 5/8 IN. BY 4FT. REBAR DRIVEN 0.10 IN. BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	METAL FENCE CORNER POST	325	1.40	4.6
MK # 2	TELEPHONE BOX	230	1.40	4.6
MK # 3	POWER POLE	110	22.70	74.5

AZ Mark Station	750022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	P777
Ref Mon # 3	SAL5

Comments

Elevations established from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015. Elevations updated from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750022A	10/2/2014	AHTD	YELL	27	080495

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	97,944.9491	0.0039
Easting (M)	290,917.4203	0.0039
Elevation (M)*	114.102	
Northing (SFT)	321,341.0538	
Easting (SFT)	954,451.5698	
Elevation (SFT)*	374.349	

Vertical Determined By:	None			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID09			
Latitude	35	12	36.7345800	
Longitude	93	11	53.0821680	
Ellipsoid Height (M):	84.789			0.0090
Geoid Height (M):	-29.299			

Convergence Angle	0	41	49.7787527
Scale Factor	0.999957115		
Elevation Adjust. Factor	0.9999820940		
Combined Adjust. Factor	0.9999392098		

Location Description

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SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	39	9.70	31.8
MK # 2	16" CEDAR TREE	99	19.00	62.3
MK # 3	30" PLASTIC PIPE UNDER FIELD ENTRANCE	245	11.80	38.7

AZ Mark Station	750022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	P777
Ref Mon # 3	SAL5

Comments

Elevations established from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015. Elevations updated from three wire levels from BM 919 and BM 920 from Job 080377 by B&F during Job 080495 in 04/2015.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750023	5/4/2020	ARDOT	YELL	154	080618

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	87,181.9222	0.0050
Easting (M)	287,545.6359	0.0050
Elevation (M)*		
Northing (SFT)	286,029.3564	
Easting (SFT)	943,389.3071	
Elevation (SFT)*		

Convergence Angle	0	43	4.2465497
Scale Factor	0.999969566		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	6	46.1484612
Longitude	93	14	1.0558896
Ellipsoid Height (M):	80.243	0.0210	
Geoid Height (M):	-29.380	0.0210	

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 154E AND STATE HIGHWAY 28E, WEST OF CENTERVILLE, GO EAST ON HIGHWAY 154 0.45 MILES TO THE MARK ON THE RIGHT, S 42.9' OF THE C/L OF THE HIGHWAY AND 10.7' EAST OF A FIELD ROAD AND 2' WEST OF A WITNESS POST. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 750023" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	C/L GATE	191	8.11	26.6
MK # 2				
MK # 3				

AZ Mark Station	750023A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARRV
Ref Mon # 3	ARGS

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750023A	5/4/2020	ARDOT	YELL	154	080618

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	87,178.5122	0.0040
Easting (M)	287,985.1571	0.0050
Elevation (M)*		
Northing (SFT)	286,018.1688	
Easting (SFT)	944,831.3029	
Elevation (SFT)*		

Convergence Angle	0	42	54.1462498
Scale Factor	0.999969564		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	6	46.2161556
Longitude	93	13	43.6984140
Ellipsoid Height (M):	74.598	0.0200	
Geoid Height (M):	-29.373	0.0200	

Location Description

TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 154E AND STATE HIGHWAY 28E, WEST OF CENTERVILLE, GO EAST ON HIGHWAY 154 0.75 MILES TO THE MARK ON THE RIGHT, S 17.6' OF THE C/L OF THE HIGHWAY AND 116.9' WEST OF THE C/L OF COBALT LN. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2020 750023A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE W/ TB	231	9.57	31.4
MK # 2				
MK # 3				

AZ Mark Station	750023
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARRV
Ref Mon # 3	ARGS

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750024	5/12/2021	ARDOT	YELL	28	080678

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	73,077.8980	0.0030
Easting (M)	279,236.3556	0.0040
Elevation (M)*		
Northing (SFT)	239,756.4037	
Easting (SFT)	916,127.9433	
Elevation (SFT)*		

Convergence Angle	0	46	10.8212466
Scale Factor	0.999990298		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	59	5.0083692
Longitude	93	19	21.6865416
Ellipsoid Height (M):	86.671	0.0130	
Geoid Height (M):	-29.356	0.0130	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 28 AND STATE HIGHWAY 60, IN PLAINVIEW, GO WEST ON HIGHWAY 28 1.65 MILES TO THE MARK ON THE RIGHT, 31.2' NORTH OF THE C/L OF THE HIGHWAY AND 45' WEST OF THE C/L OF DOC BULL ROAD. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 750024" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	53	7.19	23.6
MK # 2	COMBINATION POLE	290	9.26	30.4
MK # 3				

AZ Mark Station	750024A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARGS
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
750024A	5/12/2021	ARDOT	YELL	28	080678

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	73,074.9475	0.0030
Easting (M)	279,651.3836	0.0030
Elevation (M)*		
Northing (SFT)	239,746.7236	
Easting (SFT)	917,489.5810	
Elevation (SFT)*		

Convergence Angle	0	46	1.2990085
Scale Factor	0.999990293		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	59	5.0932356	
Longitude	93	19	5.3224716	
Ellipsoid Height (M):	88.984			0.0130
Geoid Height (M):	-29.347			0.0130

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 28 AND STATE HIGHWAY 60, IN PLAINVIEW, GO WEST ON HIGHWAY 28 1.4 MILES TO THE MARK ON THE RIGHT, 27' NORTH OF THE C/L OF THE HIGHWAY. THE MARK IS A STANDARD 2 1/2" CAP STAMPED "2021 750024A" ON TOP OF A 4' REBAR DRIVEN BELOW THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	283	21.58	70.8
MK # 2	CENTER OF GATE	71	13.93	45.7
MK # 3				

AZ Mark Station	750024
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARGS
Ref Mon # 3	ARRV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
82 V 10 W	1/1/1967	MsHD	S/WASHINGTO	N/A	020160

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	474,051.4526	
Easting (M)	482,988.9044	
Elevation (M)*	37.860	
Northing (SFT)	1,555,283.8074	
Easting (SFT)	1,584,606.0972	
Elevation (SFT)*	124.212	

Vertical Determined By:	2nd Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	19	51.8042280
Longitude	91	6	31.0058280
Ellipsoid Height (M):	11.433		
Geoid Height (M):	-26.425		

Convergence Angle	0	29	56.0441522
Scale Factor	0.999993264		
Elevation Adjust. Factor	0.9999940586		
Combined Adjust. Factor	0.9999873226		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

STATION IS LOCATED ABOUT 16.5 KM (10.3 MI) EAST OF LAKE VILLAGE AR, 10.3 KM (6.4 MI) SOUTHWEST OF GREENVILLE, AND 10.3 KM (6.4 MI) NORTHWEST OF WAYSIDE. OWNERSHIP--MISSISSIPPI STATE HIGHWAY DEPARTMENT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 65 AND 82 IN LAKE VILLAGE AR. GO SOUTHEAST ON U.S.HIGHWAYS 65 AND 82 FOR 7.52 KM (4.67 MI) TO WHERE U.S.HIGHWAY 65 TURNS SOUTH. CONTINUE EASTERLY ON U.S.HIGHWAY 82 FOR 7.95 KM (4.94 MI) TO THE JUNCTION OF STATE HIGHWAY 142 ON THE RIGHT. CONTINUE NORTHEASTERLY ON U.S.HIGHWAY 82, CROSSING THE MISSISSIPPI RIVER BRIDGE AND ENTERING THE STATE OF MISSISSIPPI FOR 6.01 KM (3.73 MI) TO THE JUNCTION OF STATE HIGHWAY 454 ON THE RIGHT. CONTINUE NORTHEAST ON U.S.HIGHWAY 82 FOR 3.02 KM (1.88 MI) TO THE MT. CALVARY MB CHURCH AND THE STATION ON THE LEFT. IN THE SOUTHEAST CORNER OF THE CHURCH LAWN. STATION IS A STANDARD MSHD BENCH MARK DISK STAMPED---82V-10W 1966 BM---. SET IN THE TOP OF A 30-CM ROUND CONCRETE POST THAT PROJECTS 4-CM ABOVE THE GROUND. 16.5 M (54.1 FT) NORTHWEST OF THE CENTERLINE OF THE SOUTHWEST BOUND LANES OF U.S.HIGHWAY 82, 0.73 M (2.40 FT) SOUTHWEST OF A UTILITY POLE

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER OF THE CHURCH	E-NE	50.30	165.0
MK # 2	A METAL WITNESS POST	NE	0.30	1.0
MK # 3	CENTER OF A GRAVELED DRIVEWAY	NNE	5.50	18.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Position and elevation from NGS datasheet

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
83-99	1/5/2001	S. ARMY C.O.	PRAIRIE	63	060986

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	33,339.5178	
Easting (M)	440,813.8171	
Elevation (M)*	66.628	
Northing (SFT)	109,381.4013	
Easting (SFT)	1,446,236.6649	
Elevation (SFT)*	218.595	

Convergence Angle	0	15	32.3673527
Scale Factor	1.000072598		
Elevation Adjust. Factor	0.9999895440		
Combined Adjust. Factor	1.0000621412		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	37	58.8297432
Longitude	91	33	17.7165324
Ellipsoid Height (M):	40.004		
Geoid Height (M):	-26.623		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND THE ARKANSAS/PRAIRE COUNTY LINE, LOCATED ABOUT 8.05 KM (5.00 M) NORTH OF STUTTGART, GO NORTH ON U.S. HIGHWAY 63 FOR 7.32 KM (4.55 MI) TO THE STATION ON THE RIGHT. THE STATION IS 7.60 METERS EAST OF THE CENTER OF U.S. HIHGWAY 63, 3.70 METERS NORTH OF THE CENTER OF A FIELD ENTRANCE AND 0.73 METERS WEST OF A WITNESS POST. THE STATION MARK IS U.S. ARMY C.O.E. MEMPHIS DISTRICT G.P.S. CAP STAMPED " 83-99" SET ON TOP OF A ROD. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5103 FROM TBM 935. THE SHOT DISTANCE IS 772.287 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	30	17.30	56.8
MK # 2	COMBINATION POLE	90	6.60	21.7
MK # 3	NONE			

AZ Mark Station	590003
Geodetic Azimuth	0 20 26.344853
Grid Azimuth	0 04 53.976279

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	PAGIS 1001
Ref Mon # 3	ALMYPORT AZ MK

Comments

Elevation by 3-wire from NGS Point C 114

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 190	7/13/1994	USC&GS	CLAY	62	R00084

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,277.2031	
Easting (M)	544,059.0230	
Elevation (M)*	90.599	
Northing (SFT)	768,624.4572	
Easting (SFT)	1,784,966.9780	
Elevation (SFT)*	297.240	

Convergence Angle	0	56	5.5723018
Scale Factor	1.000045926		
Elevation Adjust. Factor	0.9999857823		
Combined Adjust. Factor	1.0000317076		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	3.6453120
Longitude	90	23	36.2272812
Ellipsoid Height (M):	61.167		
Geoid Height (M):	-29.432		

Location Description

FROM THE POST OFFICE IN McDOUGAL, GO WEST ON HWY. 62 FOR 0.241 KM (0.15 MILES) TO THE STATION ON THE LEFT IN A SMALL PARK AREA. THE STATION IS 17.5 METERS SOUTH OF THE CENTERLINE OF HWY. 62, 13.8 METERS EAST OF COOPER STREET, 6.4 METERS WEST OF A GRAVEL DRIVE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD BRONZE CAP SET IN A CONCRETE POST THAT PROJECTS THREE (3) INCHES.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	270	6.30	20.7
MK # 2	24" OAK TREE	202	7.20	23.6
MK # 3	24" OAK TREE	100	13.60	44.6

AZ Mark Station	110001
Geodetic Azimuth	82 47 45.33934
Grid Azimuth	81 51 39.826045

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Cross Reference Job: R00119 and R00125

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 2	1/1/1978	DMA	PULASKI	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	647,331.0631	
Easting (M)	387,090.5700	
Elevation (M)*	116.700	
Northing (SFT)	2,123,785.3295	
Easting (SFT)	1,269,979.6451	
Elevation (SFT)*	382.873	

Convergence Angle	0	4	44.5663516	
Scale Factor	1.000031529			
Elevation Adjust. Factor	0.9999816863			
Combined Adjust. Factor	1.0000132147			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	53	47.2269156	
Longitude	92	8	28.4350308	
Ellipsoid Height (M):	89.620			
Geoid Height (M):	-27.010			

Location Description

THE STATION IS LOCATED IN FRONT OF THE THOMAS COMMUNITY ACTIVITIES CENTER (BUILDING 868) ON LITTLE ROCK AIR FORCE BASE NEAR JACKSONVILLE. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 67, 167 AND VANDENBERG BOULEVARD, GO WEST ON VANDENBERG BOULEVARD FOR 1.7 MI (2.7 KM) TO A SIDE ROAD LEFT, ARNOLD DRIVE. TURN LEFT AND GO WEST ON ARNOLD DRIVE FOR 0.5 MI (0.8 KM) TO THE WEST END OF THE THOMAS COMMUNITY ACTIVITIES CENTER AND THE STATION. THE STATION IS SET INTO THE TOP OF A 25-CM CONCRETE POST FLUSH WITH GROUND. LOCATED ABOUT 20 M (65.6 FT) WEST OF THE PARKING AREA AND ABOUT 20 M (65.6 FT) SOUTH OF A SMALL STAND OF TREES.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FIRE HYDRANT	NW	22.90	75.1
MK # 2	NORTH EDGE OF ARNOLD DRIVE	N	8.60	28.2
MK # 3	WEST EDGE OF THE THOMAS ACTIVITIES C ENTER DRIVEWAY	W	28.90	94.8

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 292	1/1/1984	NOAA	LINCOLN	65	20137, R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	554,970.9300
Easting (M)	430,639.3410
Elevation (M)*	55.666
Northing (SFT)	1,820,767.1262
Easting (SFT)	1,412,855.9046
Elevation (SFT)*	182.631

Convergence Angle	0	11	8.7888048
Scale Factor			0.999918597
Elevation Adjust. Factor			0.9999912643
Combined Adjust. Factor			0.9999098620

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	3	48.4517700
Longitude	91	40	5.0742660
Ellipsoid Height (M):	29.786		
Geoid Height (M):	-25.879		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. 65 FOR 3.38 KM (2.10 MI) TO THE JUNCTION OF A GRAVEL ROAD ON THE RIGHT, TURN RIGHT, SOUTHWEST ON GRAVEL ROAD CROSSING A RAILROAD TRACK TO THE STATION ON THE LEFT. THE STATION IS 50.13 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 17.83 METERS SOUTHEAST OF THE CENTER OF THE GRAVEL ROAD, 16.67 METERS SOUTHWEST OF THE SOUTHWEST RAIL, 0.30 METERS WEST OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "A 292 1984" SET FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	270	0.80	2.6
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	A 292A
Geodetic Azimuth	118 40 48.48511
Grid Azimuth	118 29 39.69992

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 292 AZ	7/19/1995	AHTD	LINCOLN	65	20137, R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	554,725.1410
Easting (M)	431,092.1350
Elevation (M)*	54.628
Northing (SFT)	1,819,960.7334
Easting (SFT)	1,414,341.4462
Elevation (SFT)*	179.225
Convergence Angle	0 11 18.6545695
Scale Factor	0.999918579
Elevation Adjust. Factor	0.9999914272
Combined Adjust. Factor	0.9999100069

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 3 40.4261280
Longitude	91 39 47.4470928
Ellipsoid Height (M):	28.712
Geoid Height (M):	-25.881

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 3.90 (2.42 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.65 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 9.25 METERS NORTHEAST OF THE NORTHEAST RAIL AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "A292A 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	A 292
Geodetic Azimuth	298 40 58.35800
Grid Azimuth	298 29 39.69992

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 309	1/1/1989	USC&GS	WASHINGTON	N/A	040272, 040346, CB7201

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	201,945.1369	0.0010
Easting (M)	204,977.0062	0.0010
Elevation (M)*	363.329	
Northing (SFT)	662,548.3366	
Easting (SFT)	672,495.3945	
Elevation (SFT)*	1,192.022	

Convergence Angle	-1	15	39.2599234
Scale Factor			0.999981913
Elevation Adjust. Factor			0.9999429851
Combined Adjust. Factor			0.9999248991

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	36	8	3.2203536
Longitude	94	10	0.7677012
Ellipsoid Height (M):	335.246		
Geoid Height (M):	-28.084		

Location Description

THE STATION IS LOCATED IN JOHNSON, AT THE INTERSECTION OF MAIN STREET AND THE ARKANSAS AND MISSOURI RAILROAD. THE STATION IS 41.0 METERS NORTH OF THE NORTHWEST CORNER OF THE OLD POST OFFICE BUILDING, 25.7 METERS NORTHEAST OF THE CENTERLINE OF THE STREET, 7.3 METERS NORTHWEST OF A UTILITY POLE, 6.4 METERS SOUTHEAST OF THE NEAR RAIL, AND .30 METERS NORTHEAST OF A WITNESS POST. THE MARK IS A METAL ROD DRIVEN TO REFUSAL AT 1.7 METERS AND FLUSH WITH THE GROUND. NOTE: ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP. NOTE: CAP HAS BEEN BROKE OFF, "ROD IS O.K."

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	8	3.2200476
Longitude	94	10	0.7685400
Ellipsoid Height:	335.349		
Grid Northing (Meters)	201,945.1279		
Grid Easting (Meters)	204,976.9850		

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	720051
Geodetic Azimuth	58 58 52
Grid Azimuth	60 14 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY (V 26)
Ref Mon # 2	ARHR (91040001)
Ref Mon # 3	CTA1, 720063, 720063A (E E S)

Comments

THE OLD GEOID 12 HT. WAS -27.980m. THE ELEVATION IS BASED ON NGSs PUBLISHED ELEVATION.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 319		AHTD	NA	NA	001873, 020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	504,586.6142	
Easting (M)	395,425.4830	
Elevation (M)*	56.362	
Northing (SFT)	1,655,464.5834	
Easting (SFT)	1,297,325.1055	
Elevation (SFT)*	184.915	

Convergence Angle	0	1	39.3223195
Scale Factor			0.999945781
Elevation Adjust. Factor			0.9999911550
Combined Adjust. Factor			0.9999369365

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	36	34.6361508
Longitude	92	2	57.4593036
Ellipsoid Height (M):	30.676		
Geoid Height (M):	-25.749		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 324	11/6/2008	AHTD	Greene	69	100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	190,224.3579
Easting (M)	536,445.0770
Elevation (M)*	80.458
Northing (SFT)	624,094.4142
Easting (SFT)	1,759,986.8901
Elevation (SFT)*	263.968

Convergence Angle	0	52	51.8955131
Scale Factor	0.999967286		
Elevation Adjust. Factor	0.9999873737		
Combined Adjust. Factor	0.9999546601		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	18.5304696
Longitude	90	29	9.0629556
Ellipsoid Height (M):	52.345		
Geoid Height (M):	-28.102		

Location Description

To reach the station from the junction of highways 412 and 69 in downtown Paragould go south on highway 69 for 0.95 miles to the station on the right 25 feet south of the center of a bar ditch, 33.10 feet west of the center of hwy-69 and 1.0 feet east of a carsonite witness post.The station mark is a 2 1/2 inch cap stamped "A 324 2008" set in the top of a 12 inch round by 3 foot deep concrete post that is flush with the ground.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	270	1.83	6.0
MK # 2				
MK # 3				

AZ Mark Station	B 324
Geodetic Azimuth	177 55 58
Grid Azimuth	177 03 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG, ARBT BLMM
Ref Mon # 2	280012,280012A
Ref Mon # 3	280006,280006A

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 326	5/6/2009	AHTD	POPE	SPEN RI	080606

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,536.0794	0.0030
Easting (M)	297,139.7837	0.0020
Elevation (M)*	117.699	
Northing (SFT)	356,088.7872	
Easting (SFT)	974,866.1070	
Elevation (SFT)*	386.151	

Convergence Angle	0	39	29.4263065
Scale Factor	0.999947632		
Elevation Adjust. Factor	0.9999815295		
Combined Adjust. Factor	0.9999291625		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	18	22.7805552
Longitude	93	7	51.8849580
Ellipsoid Height (M):	88.576		
Geoid Height (M):	-29.123		

Location Description

TO REACH FROM THE INTERSECTION OF U.S INTERSTATE 40 AND ARKANSAS STATE
HIGHWAY 7 IN RUSSELLVILLE, GO NORTH ON HIGHWAY 7 FOR 0.1 MI (0.2 KM)
TO ASPEN ROAD. TURN RIGHT, EAST, ON ROAD FOR 0.4 MI (0.6 KM) TO THE
STATION ON THE RIGHT, NORTH OF AHTD DISTRICT SHOP.

IT IS 35.0 M (114.8 FT) EAST OF THE CENTER OF AN ASPHALT DRIVE, 23.1 M
(75.8 FT) SOUTH OF THE CENTER OF ASPEN ROAD, 32.5 M (106.6 FT)
SOUTHWEST OF THE WEST END OF A CORRUGATED METAL PIPE, 28.1 M (92.2 FT)
SOUTHEAST OF A FENCE CORNER, 23.0 M (75.5 FT) NORTHEAST OF THE CENTER
OF A DROP INLET, 15.1 M (49.5 FT) SOUTH OF A FIBERGLASS WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
A 81	4/18/1935	CGS	GRANT	RONT ST	020562

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	584,188.7487	
Easting (M)	341,079.9507	
Elevation (M)*	70.351	
Northing (SFT)	1,916,625.9197	
Easting (SFT)	1,119,026.4716	
Elevation (SFT)*	230.810	

Convergence Angle	0	21	30.0704753	
Scale Factor			0.999931346	
Elevation Adjust. Factor			0.9999889598	
Combined Adjust. Factor			0.9999203065	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	None			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12A			
Latitude	34	19	32.3943240	
Longitude	92	38	24.9704160	
Ellipsoid Height (M):	44.053			
Geoid Height (M):	-26.298			

Location Description

AT POYEN ON THE CHICAGO ROCK ISLAND AND PACIFIC RAILWAY, 0.1 MILE NORTH OF THE STATION, 2.3 FEET WEST OF POLE 12+04, 37 FEET WEST OF THE CENTER LINE OF THE MAIN TRACK, 73 FEET SOUTH OF THE SOUTHWEST CORNER OF RAILWAY SECTION TOOL HOUSE. A STANDARD DISK, SET IN THE TOP OF A CONCRETE POST

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	AHTD HOPE CORS	51 31' 05"	12,733.24	369,859.0
MK # 2	AHTD CAMDEN CORS	14 24' 00"	89,725.99	294,376.0
MK # 3	AHTD LITTLE ROCK CORS	211 39' 47"	45,184.01	148,241.2

AZ Mark Station	270023
Geodetic Azimuth	
Grid Azimuth	175 58 34

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHP
Ref Mon # 2	ARCM
Ref Mon # 3	ARLR

Comments

ELEV. BASED ON NGS DATASHEET.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ADAMS 2	1/1/1970	NGS	PULASKI	I440	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	628,811.3880
Easting (M)	379,290.3930
Elevation (M)*	77.842
Northing (SFT)	2,063,025.3621
Easting (SFT)	1,244,388.5644
Elevation (SFT)*	255.387
Convergence Angle	0 7 35.6057625
Scale Factor	0.999991903
Elevation Adjust. Factor	0.9999877842
Combined Adjust. Factor	0.9999796873

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 43 45.8019156
Longitude	92 13 34.0313448
Ellipsoid Height (M):	51.230
Geoid Height (M):	-26.580

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

NOTE---THIS STATION IS A COOPERATIVE BASE NETWORK CONTROL STATION. THIS STATION IS THE PRIMARY AIRPORT CONTROL STATION (PACS) . THE STATION IS LOCATED AT THE LITTLE ROCK NATIONAL AIRPORT, IN THE GRASS AREA SOUTHEAST OF TAXIWAY F AND MIDWAY BETWEEN TAXIWAY H AND P, NORTH OF THE NORTH CORNER OF THE NORTHERNMOST OF FOUR RAYTHEON HANGERS. OWNERSHIP--THE CITY OF LITTLE ROCK, 1 AIRPORT DRIVE, LITTLE ROCK ARKANSAS, 72202. PHONE 501-372-3439. AIRPORT MANAGER-OPERATIONS--MR.CHRISTOPHER H. WHITE, LITTLE ROCK NATIONAL AIRPORT, ADAMS FIELD, ONE AIRPORT DRIVE, LITTLE ROCK ARKANSAS, 72202-4489. PHONE--501-372-3439. FAX--501-372-0612. GENERAL SUPERINTENDENT OF MAINTENANCE--MR. K.M.STOKES. PHONE--501-374-9649 OR 501-374-5441. YOU MUST HAVE A VISITORS PASS AND AN ESCORT TO ACCESS THE AIRPORT. GIVE AT LEAST 1 WEEK ADVANCED NOTICE BEFORE ARRIVAL. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 440 (EXIT 3) AND COUNTY ROAD 21 (BANKHEAD ROAD) IN SOUTHEAST LITTLE ROCK. DRIVE NORTH AND NORTHEAST FOR 0.9 MI. (1.4 KM) TO THE AIRPORT TERMINAL BUILDING. THE AIRPORT OPERATIONS MANAGERS OFFICE IS LOCATED ON THE SOUTHEASTERN END

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	EJ0133 ADAMS 2 RM 3	028 53	31.11	102.1
MK # 2	EJ1697 LITTLE ROCK ADAM FLD ASR 4 RAD	150 02	315.46	1,035.0
MK # 3	EJ1695 ADAMS	305 31	25.63	84.1

AZ Mark Station	ADAMS 2 AZ MK
Geodetic Azimuth	216 07 11.4
Grid Azimuth	216 14 47

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ADS 1001		F&H	CRAWFORD	)RNHILL	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	120,413.2363	0.0010
Easting (M)	197,225.5072	0.0010
Elevation (M)*	118.874	
Northing (SFT)	395,055.7594	
Easting (SFT)	647,064.0182	
Elevation (SFT)*	390.005	

Convergence Angle	-1	17	56.6001722
Scale Factor	0.999941191		
Elevation Adjust. Factor	0.9999813452		
Combined Adjust. Factor	0.9999225373		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	23	52.7658900
Longitude	94	13	56.7884172
Ellipsoid Height (M):	89.001	0.0020	
Geoid Height (M):	-29.856	0.0020	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 162 AND STATE HIGHWAY 64B, IN ALMA, GO WEST ON HIGHWAY 162 4.35 MILES TO THORNHILL ROAD AND TURN LEFT (SOUTH) AND GO 2.25 MILES TO THE MARK ON THE LEFT, EAST 27 FEET OF THE CENTERLINE OF THE ROAD, 40 FOOT NORTH OF THE CENTERLINE OF A FIELD ROAD AND WEST 5.5 FEET OF A WITNESS POST. THE MARK IS 1 INCH CAP SET IN A 7 INCH ROUND CONCRETE CYCLNDER STAMPED "JOB#040373, ADS 1001, 1276" LEVEL WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS VALVE	130	3.35	11.0
MK # 2				
MK # 3				

AZ Mark Station	170030
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

3/7/2017 GPS DERIVED ELEV. ESTABLISHED BY CONSTRAINING ORTHOMETRIC HTS. ON CORS SITES ARFY, ARHR & ARFS AND ON 1ST ORDER USC & GS BM L 28 IN FINAL STATIC NETWORK ADJUSTMENT.
**********PUBLISHED ELEV. BASED ON DIGITAL LEVELS BY CLS IN MARCH 2017 FOR JOB #040748 FROM GPS DERIVED ELEV. ON AHTD GPS #170008A TO 1ST

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AGRONOMY	1/1/1997	ARN COOPER	WASHINGTON	N/A	4620_5,004822,040489,012069

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	197,817.6260	
Easting (M)	204,191.2030	
Elevation (M)*	394.547	
Northing (SFT)	649,006.6613	
Easting (SFT)	669,917.3052	
Elevation (SFT)*	1,294.441	

Convergence Angle	-1	15	55.4225680
Scale Factor			0.999975875
Elevation Adjust. Factor			0.9999380866
Combined Adjust. Factor			0.9999139631

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	5	48.7759488	
Longitude	94	10	28.5433824	
Ellipsoid Height (M):	366.576			
Geoid Height (M):	-27.971			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 112, ON THE NORTH EDGE OF FAYETTEVILLE, GO SOUTH ON STATE HIGHWAY 112 FOR 0.50 MILES TO CASSATT STREET ON THE LEFT, TURN LEFT (EAST) ON CASSATT STREET AND GO EAST FOR 0.15 MILES TO A GRAVEL ROAD ON THE RIGHT. TURN RIGHT (SOUTH) ON THE GRAVEL ROAD AND GO 0.15 MILES TO THE STATION ON THE RIGHT. THE STATION IS 5.10 METERS WEST OF THE CENTER OF THE GRAVEL ROAD AND O.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS AN ARKANSAS HARN DISK SET IN A 13 - INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND. THE DISK IS STAMPED AGRONOMY. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVES FROM NGS BENCH L 310 PID # GG0905 RAN BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WEST EDGE OF THE GRAVEL ROAD	W	3.70	12.1
MK # 2	IRRIGATION VALVE IN METAL BOX	SW 27	5.30	17.4
MK # 3	A 3.5 FOOT (1.1 M) TALL METAL GUARD POST	SW	8.50	27.9

AZ Mark Station	720033
Geodetic Azimuth	183 16 05
Grid Azimuth	184 32 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	ENES
Ref Mon # 3	V 26

Comments

3-Wire Levels ran from NGS Marks C 27, K 310, & A 27 on 2-23-07 by crew S5101 on JOB 040489. Verified with 3-wire levels by crew S5101 in October 07 from 1st Order NGS marks Q 310, J 27, K 310, & A 27.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD FS 2	6/14/1999	AHTD	SEBASTIAN	71	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	114,834.5921
Easting (M)	179,855.3560
Elevation (M)*	132.900
Northing (SFT)	376,753.1576
Easting (SFT)	590,075.4471
Elevation (SFT)*	436.023

Convergence Angle	-1	24	33.8894163
Scale Factor			0.999944676
Elevation Adjust. Factor			0.9999791441
Combined Adjust. Factor			0.9999238212

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	20	38.4699696
Longitude	94	25	19.5343176
Ellipsoid Height (M):	102.700		
Geoid Height (M):	-30.180		

Location Description

THE STATION IS LOCATED IN FORT SMITH, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 4 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, 4019 TOWNSON AVENUE, PO BOX 1424, FORT SMITH AR 72902-1424, PHONE 501-646-5501, THE DISTRICT ENGINEER IS HAROLD BEAVERS. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 530, U.S. HIGHWAYS 71 SOUTH AND BUSINESS ROUTE 71, LOCATED ON THE SOUTH SIDE OF FORT SMITH, GO NORTH ON BUSINESS ROUTE 71 (TOWNSON AVE.) FOR 4.67 KM (2.90 MI) TO THE ARHD DISTRICT 4 HEADQUARTERS AND THE STATION ON THE RIGHT, NEAR THE WEST EDGE OF THE WESTERNMOST PARKING LOT IN FRONT OF THE DISTRICT 4 HEADQUARTERS. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 38.5 M (126.3 FT) NORTH OF THE CENTER OF THE ENTRANCE ROAD, 35.3 M (115.8 FT) EAST OF THE CENTER OF BUSINESS ROUTE 71 (TOWNSON AVENUE), 24.8 M (81.4 FT) WEST-NORTHWEST OF A FLAGPOLE, 14.5 M (47.6 FT) NORTHEAST OF A GAS VALVE AND 1.2 M (3.9 FT) WEST OF THE WEST EDGE OF PAVED PARKING LOT. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	FLAG POLE	ST-NORTHW	24.80	81.4
MK # 2	GAS VALVE	NORTHEAST	14.50	47.6
MK # 3	WEST EDGE PARK (9TH PARKING SPACE N ORTH OF ENT.)	WEST	1.20	3.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD HAR 1		AHTD	BOONE	65	Mobile LiDAR-CLS,090371

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,833.8730	
Easting (M)	307,331.3940	
Elevation (M)*	356.899	
Northing (SFT)	675,306.6317	
Easting (SFT)	1,008,303.0818	
Elevation (SFT)*	1,170.927	

Convergence Angle	0	35	58.1259214
Scale Factor			0.999990668
Elevation Adjust. Factor			0.9999439940
Combined Adjust. Factor			0.9999346625

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	36	11	3.2832024	
Longitude	93	1	48.7629408	
Ellipsoid Height (M):	328.620			
Geoid Height (M):	-28.270			

Location Description

THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO A GATE. PASS THROUGH THE GATE, CONTINUE SOUTHWESTERLY FOLLOWING THE NORTH EDGE OF A PAVED AREA FOR 0.16 KM (0.10 MI) TO A BRICK BUILDING ON THE LEFT AND A LARGE OAK TREE ON THE RIGHT. CONTINUE FOLLOWING THE EDGE OF THE PAVED AREA FOR ABOUT 20 M (65.6 FT) TO A PAVED ROAD. GO SOUTHERLY ON A PAVED ROAD UP A HILL FOR ABOUT 30 M (98.4 FT) TO ANOTHER PAVED AREA AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 22.60 M (74.15 FT) SOUTHEAST OF THE BACK OF CURB AND 2.70 M (8.86 FT) NORTHEAST OF THE NORTHEAST EDGE OF A PAVED AREA.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MANHOLE	S	37.90	124.3
MK # 2	MANHOLE	W	32.20	105.6
MK # 3	THE EXTENDED CENTER OF PAVED ROAD	E	23.40	76.8

AZ Mark Station	AHTD HAR 2
Geodetic Azimuth	017 55
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD HAR 2	1/1/1997	AHTD	BOONE	65	Mobile LiDAR-CLS,090371

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	206,098.6400	
Easting (M)	307,420.0960	
Elevation (M)*	351.257	
Northing (SFT)	676,175.2881	
Easting (SFT)	1,008,594.0983	
Elevation (SFT)*	1,152.415	

Convergence Angle	0	35	56.1247740
Scale Factor	0.999991106		
Elevation Adjust. Factor	0.9999448794		
Combined Adjust. Factor	0.9999359859		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 96		
Latitude	36	11	11.9028516
Longitude	93	1	45.3239472
Ellipsoid Height (M):	322.980		
Geoid Height (M):	-28.270		

Location Description

THE STATION IS LOCATED ABOUT 8.0 KM (4.95 MI) SOUTH OF HARRISON, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 9 HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 610, HARRISON AR 72602-0610, PHONE 870-743-2100, DISTRICT ENGINEER IS RALPH FULTON. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 62 AND 412, LOCATED ABOUT 7.4 KM (4.60 MI) SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 65 FOR 0.64 KM (0.40 MI) TO A PAVED ENTRANCE ROAD TO ARHD DISTRICT 9 HEADQUARTERS ON THE RIGHT. TURN RIGHT, SOUTHWEST ON ENTRANCE ROAD FOR 0.04 KM (0.00 MI) TO A PAVED ENTRANCE ROAD TO A PAVED PARKING LOT ON THE RIGHT. TURN RIGHT, THEN LEFT AND CONTINUE SOUTHWEST ON THE PAVED ROAD FOR 0.04 KM (0.00 MI) TO THE PARKING LOT AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST END OF A CONCRETE HEADW ALL	S	34.60	113.5
MK # 2	CENTER OF PAVED ENTRANCE ROAD TO T HE PARKING LOT	NW	25.00	82.0
MK # 3	BACK OF CURB	NE	2.80	9.2

AZ Mark Station	AHTD HAR 1
Geodetic Azimuth	197 55
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-Wire Levels were ran in Job 090198/090152 by S5111 and S5108 in June 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD HOPE 1	1/1/1997	AHTD	HEMPSTEAD	29	3720_7

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	515,363.4270	
Easting (M)	251,615.1614	
Elevation (M)*	108.100	
Northing (SFT)	1,690,821.5101	
Easting (SFT)	825,507.4087	
Elevation (SFT)*	354.658	

Convergence Angle	0	53	45.1410667
Scale Factor			0.999935774
Elevation Adjust. Factor			0.9999830359
Combined Adjust. Factor			0.9999188110

SUPERCEDED CONTROL

Horizontal Datum			NAVD 88
Latitude	33	41	46.8192120
Longitude	93	36	2.3641812
Ellipsoid Height:			81.100
Grid Northing (Meters)			515,363.4042
Grid Easting (Meters)			251,615.1380

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	41	46.8199644	
Longitude	93	36	2.3632884	
Ellipsoid Height (M):			81.107	
Geoid Height (M):			-26.983	

Location Description

THE STATION IS LOCATED ABOUT 0.60 KM (0.35 MI) NORTH OF HOPE, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 3. OWNERSHIP--THE STATE OF ARKANSAS, PO BOX 490, HOPE AR 71801-0490, PHONE 870-777-3457, THE DISTRICT ENGINEER IS WILLIAM TYLER. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 30 AND STATE HIGHWAY 29 (EXIT 31) LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 0.64 KM (0.40 MI) TO THE JUNCTION OF THE SOUTH ENTRANCE ROAD TO THE ARHD DISTRICT 3 ON THE RIGHT. TURN RIGHT, EASTERLY ON A PAVED ROAD FOR 0.04 KM (0.00 MI) TO A PAVED ROAD LEFT. TURN LEFT, NORTH, PASSING THROUGH A GATE IN A BRICK FENCE FOR 0.04 KM (0.00 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATIONS FOR A CLASS A ROD MARK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH WALL OF THE RESIDENT ENGINEE R BRICK BUILDNG	N	10.59	34.7
MK # 2	SOUTH EDGE OF A CONCRETE SIDEWALK	S	4.38	14.4
MK # 3	BRICK FENCE	E	3.39	11.1

AZ Mark Station	AHTD HOPE 2
Geodetic Azimuth	306 29
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD HOPE 2	1/1/1997	AHTD	HEMPSTEAD	29	030078

Zone	Zone Code
Arkansas South	302

Horizontal Datum	NAD 83 (1997)	
Northing (M)	515,514.5232	
Easting (M)	251,417.3330	
Elevation (M)*	107.000	
Northing (SFT)	1,691,317.2315	
Easting (SFT)	824,858.3667	
Elevation (SFT)*	351.049	

Convergence Angle	0	53	49.4915733
Scale Factor	0.999935638		
Elevation Adjust. Factor	0.9999832085		
Combined Adjust. Factor	0.9999188476		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	41	51.6233004
Longitude	93	36	10.1363436
Ellipsoid Height (M):	80.020		
Geoid Height (M):	-26.930		

Location Description

THE STATION IS LOCATED ABOUT 0.89 KM (0.55 MI) NORTH OF HOPE, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 3. OWNERSHIP--STATE OF ARKANSAS, PO BOX 490, HOPE AR 71801-0490, PHONE IS 870-777-3457, DISTRICT ENGINEER IS WILLIAM TYLER. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 30 AND STATE HIGHWAY 29 (EXIT 31) LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 0.89 KM (0.55 MI) TO THE JUNCTION OF COUNTY ROAD 221 (COUNTY ROAD 221 IS A GRAVEL ROAD TO BE PAVED SOON) AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE 0N THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 24.17 M (79.30 FT) EAST OF A UTILITY POLE, 13.32 M (43.70 FT) EAST-SOUTHEAST OF A UTILITY POLE NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF STATE HIGHWAY 29	NE	27.34	89.7
MK # 2	CENTER OF COUNTY ROAD 221	S	11.58	38.0
MK # 3	A FIBERGLASS WITNESS POST	SW	1.00	3.3

AZ Mark Station	AHTD HOPE 1
Geodetic Azimuth	126 29
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD LR 1	1/1/1997	AHTD	PULASKI	388	OFFICE

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	622,556.7633	
Easting (M)	364,939.9302	
Elevation (M)*	92.803	
Northing (SFT)	2,042,504.9809	
Easting (SFT)	1,197,307.0877	
Elevation (SFT)*	304.471	

Convergence Angle	0	12	50.7955313
Scale Factor			0.999980382
Elevation Adjust. Factor			0.9999854364
Combined Adjust. Factor			0.9999658187

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	40	21.4440276
Longitude	92	22	57.1826928
Ellipsoid Height:			66.320
Grid Northing (Meters)			622,556.7609
Grid Easting (Meters)			364,939.8940

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAD 88		
Geoid Datum:	Geoid 18		
Latitude	34	40	21.4441104
Longitude	92	22	57.1812708
Ellipsoid Height (M):	66.316		
Geoid Height (M):	-26.491		

Location Description

THE STATION IS LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICE AND DISTRICT 6. OWNERSHIP--STATE OF ARKANSAS, PO BOX 190296, LITTLE ROCK AR 72219-0296, PHONE 501-569-2173, DISTRICT ENGINEER IS LEONARD HALL. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) AND INTERSTATE 30 (EXIT 130) LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, GO NORTH ON STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) FOR 0.08 KM (0.05 MI) TO A T-JUNCTION. TURN RIGHT, EAST ON MABELVALE PIKE FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF MABELVALE PIKE ON THE LEFT. TURN LEFT, NORTH ON MABELVALE PIKE FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF A PAVED ROAD ON THE LEFT TO THE ARHD DISTRICT 6. TURN LEFT, WEST ON THE PAVED ROAD FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT, IN A PAVED PARKING LOT, UNDER A 7.62 M (25.00 FT) TOWER. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 32.94 M (108.07 FT) EAST OF THE BACK OF CURB, 22.25 M (73.00 FT) SOUTH OF THE BACK OF CURB, 2.95 M (9.68 FT) WEST OF THE BACK OF CURB AND 2.50 M (8.20 FT)

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH WALL OF A BRICK BUILDING	N	9.25	30.3
MK # 2	CENTER OF A PAVED ROAD	S	32.25	105.8
MK # 3				

AZ Mark Station	AHTD LR 2
Geodetic Azimuth	286 06
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

BASED ON 3 WIRE LEVEL FROM NGS POINT ET 11
**********ORIG.
GEOID HT. FROM NAD 83 (1997) POSITION WAS -26.450m
**********UPDATE
D NAD 83 (2011) IS BASED ON NGS PUBLISHED POSITION
**********OLD
ELEV. 92.8373m BASED ON LEVELS BY AHTD FROM BM ET 11, NEW

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD LR 2	1/1/1997	AHTD	PULASKI	388	OFFICE,060657,061332

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)
Northing (M)	622,604.7256
Easting (M)	364,776.0419
Elevation (M)*	88.507
Northing (SFT)	2,042,662.3372
Easting (SFT)	1,196,769.3975
Elevation (SFT)*	290.377
Convergence Angle	0 12 54.4025408
Scale Factor	0.999980465
Elevation Adjust. Factor	0.9999861106
Combined Adjust. Factor	0.9999665758

Vertical Determined By:	1st Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	Geoid 18
Latitude	34 40 22.9806588
Longitude	92 23 3.6259188
Ellipsoid Height (M):	62.008
Geoid Height (M):	-26.492

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)
Latitude	34 40 22.9805364
Longitude	92 23 3.6270924
Ellipsoid Height:	62.010
Grid Northing (Meters)	622,604.7219
Grid Easting (Meters)	364,776.0120

Location Description

THE STATION IS LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT CENTRAL OFFICE AND DISTRICT 6. OWNERSHIP--STATE OF ARKANSAS, PO BOX 190296, LITTLE ROCK AR 72219-0296, PHONE 501-569-2173, DISTRICT ENGINEER IS LEONARD HALL. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) AND INTERSTATE 30 (EXIT 130) LOCATED ON THE SOUTHWEST SIDE OF LITTLE ROCK, GO NORTH ON STATE HIGHWAY 338 (BASELINE ROAD AND MABELVALE PIKE) FOR 0.08 KM (0.05 MI) TO A T-JUNCTION. TURN RIGHT, EAST ON MABELVALE PIKE FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF MABELVALE PIKE ON THE LEFT. TURN LEFT, NORTH ON MABELVALE PIKE FOR 0.40 KM (0.25 MI) TO THE JUNCTION OF A PAVED ROAD LEFT LEADING TO THE ARHD DISTRICT 6. TURN LEFT, WEST ON THE PAVED ROAD FOR 0.40 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 1.00 M (3.28 FT) SOUTH OF A FIBERGLASS WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CHAIN LINK FENCE	E	27.50	90.2
MK # 2	CENTER OF A PAVED ROAD	N	10.10	33.1
MK # 3	UTILITY POLE	SE	37.16	121.9

AZ Mark Station	AHTD LR 1
Geodetic Azimuth	106 06
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ORIG. GEOID HT. FROM NAD 83 (1997) POSITION WAS -26.450m
**********UPDATED NAD 83 (2011) IS BASED ON NGS PUBLISHED POSITION
**********PREVIOUS ELEV. OF 88.500m WAS UPDATED AND BASED ON NGS PUBLISHED ELEV. OF 88.507m IN MAY 2008 FROM DIFFERENTIAL LEVELING

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD MON 1	1/1/1997	AHTD	DREW	425	020286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	509,987.0722	
Easting (M)	418,318.8360	
Elevation (M)*	87.242	
Northing (SFT)	1,673,182.5860	
Easting (SFT)	1,372,434.3811	
Elevation (SFT)*	286.226	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	39	29.3912784	
Longitude	91	48	8.9537580	
Ellipsoid Height (M):	61.530			
Geoid Height (M):	-25.680			

Convergence Angle	0	6	37.9659596	
Scale Factor	0.999939899			
Elevation Adjust. Factor	0.9999863091			
Combined Adjust. Factor	0.9999262089			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Description

THE STATION IS LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF MONTICELLO, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT MAINTENANCE AREA HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 244, MONTICELLO AR 71655, PHONE 870-367-6275, SUPERVISOR IS DWAIN (DOC) MILES. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 4 LOCATED ON THE WEST SIDE OF MONTICELLO, GO NORTH ON U.S. HIGHWAY 425 FOR 3.22 KM (2.00 MI) TO THE NORTH ENTRANCE TO THE ARHD MAINTENANCE AREA HEADQUARTERS ON THE RIGHT. TURN RIGHT, EAST THROUGH A PARKING LOT FOR ABOUT 34.0 M (111.5 FT) TO A GATE IN A CHAIN LINK FENCE. PASS THROUGH THE GATE FOR ABOUT 6.0 M (19.7 FT) TO THE STATION ON THE LEFT, UNDER A 6.10 M (20.01 FT) TOWER. THE STATION IS PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 41.48 M (136.09 FT) EAST OF THE CENTER OF HIGHWAY 425NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATIONS FOR A CLASS A ROD MARK.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CHAIN LINK FENCE	E	2.06	6.8
MK # 2	SOUTH BRICK WALL OF THE RESIDENT EN GINEER BUILDING	S	1.94	6.4
MK # 3	CENTER OF THE ENTRANCE TO AREA YAR D	N	7.20	23.6

AZ Mark Station	AHTD MON 2
Geodetic Azimuth	228 47
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD MON 2	1/1/1997	AHTD	DREW	425	020286

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	509,961.3301	
Easting (M)	418,289.5640	
Elevation (M)*	87.891	
Northing (SFT)	1,673,098.1305	
Easting (SFT)	1,372,338.3446	
Elevation (SFT)*	288.356	

Convergence Angle	0	6	37.3289673
Scale Factor	0.999939926		
Elevation Adjust. Factor	0.9999862072		
Combined Adjust. Factor	0.9999261341		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	39	28.5575544
Longitude	91	48	10.0918728
Ellipsoid Height (M):	62.300		
Geoid Height (M):	-25.680		

Location Description

THE STATION IS LOCATED ABOUT 3.22 KM (2.00 MI) NORTH OF MONTICELLO, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT MAINTENANCE AREA HEADQUARTERS. OWNERSHIP--STATE OF ARKANSAS, PO BOX 244, MONTICELLO AR 71655, PHONE 870-367-6276, SUPERVISOR IS DWAIN (DOC) MILES. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND STATE HIGHWAY 4, LOCATED ON THE WEST SIDE OF MONTICELLO, GO NORTH ON HIGHWAY 425 FOR 3.22 KM (2.00 MI) TO THE ARHD MAINTENANCE AREA HEADQUARTERS AND THE STATION ON THE RIGHT. THE STATION IS PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. 4.88 M (16.01 FT) WEST OF THE BACK OF CURB, 1.17 M (3.84 FT) EAST OF THE BACK OF CURB AND 1.00 M (3.28 FT) WEST OF A FIBERGLASS WITNESS POST. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF SOUTH ENTRANCE TO MAINTE NANCE AREA HQ	N	15.50	50.9
MK # 2	THE CENTER OF HIGHWAY 425	E	10.25	33.6
MK # 3	CENTER OF N ENTRANCE TO THE MAINTE NANCE AREA HQ	S	16.00	52.5

AZ Mark Station	AHTD MON 1
Geodetic Azimuth	048 47
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD PAR 1	1/1/1997	AHTD	GREENE	412	100520, 100496

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,404.5890	
Easting (M)	533,397.7140	
Elevation (M)*	89.794	
Northing (SFT)	631,247.3891	
Easting (SFT)	1,749,989.0000	
Elevation (SFT)*	294.599	

Convergence Angle	0	51	41.8273491
Scale Factor	0.999970119		
Elevation Adjust. Factor	0.9999859086		
Combined Adjust. Factor	0.9999560280		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	3	30.7638396	
Longitude	90	31	9.4758600	
Ellipsoid Height (M):	61.570			
Geoid Height (M):	-28.130			

Location Description

THE STATION IS LOCATED IN PARAGOULD, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 10. OWNERSHIP--STATE OF ARKANSAS, PO BOX 98, PARAGOULD AR 72451-0098, PHONE 870-239-9511, DISTRICT ENGINEER IS JOE BARNETT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 49 AND 412 IN PARAGOULD, GO WEST ON U.S. HIGHWAY 412 FOR 1.61 KM (1.00 MI) TO THE WEST ENTRANCE OF THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 10 ON THE LEFT. TURN LEFT, SOUTH ON ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO A GATE IN A BRICK FENCE. PASS THROUGH GATE AND CONTINUE SOUTH FOR 0.08 KM (0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. LOCATED 9.06 M (29.72 FT) NORTH OF THE BACK OF CURB. NOTE--THE SLEEVE DEPTH DOES NOT MEET SPECIFICATIONS FOR A CLASS A ROD MARK.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CORNER POST IN A CHAIN LINK FENCE	E	8.23	27.0
MK # 2	BACK OF CURB	W	5.51	18.1
MK # 3	BACK OF CURB	S	3.18	10.4

AZ Mark Station	AHTD PAR 2
Geodetic Azimuth	027 14
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on 3-wire from NGS Pt. K 251 For more Benchmarks see 100496

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
AHTD PAR 2	1/1/1997	AHTD	GREENE	412	100564,100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,520.6919	
Easting (M)	533,455.2650	
Elevation (M)*	89.830	
Northing (SFT)	631,628.3033	
Easting (SFT)	1,750,177.8153	
Elevation (SFT)*	294.718	

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	3	34.5022956	
Longitude	90	31	7.1066928	
Ellipsoid Height (M):	61.850			
Geoid Height (M):	-28.107			

Convergence Angle	0	51	43.2059654	
Scale Factor	0.999970269			
Elevation Adjust. Factor	0.9999859029			
Combined Adjust. Factor	0.9999561723			

Location Description

THE STATION IS LOCATED IN PARAGOULD, AT THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT DISTRICT 10. OWNERSHIP--STATE OF ARKANSAS, PO BOX 98, PARAGOULD AR 72451-0098, PHONE 870-239-9511, DISTRICT ENGINEER IS JOE BARNETT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 49 AND 412 IN PARAGOULD, GO WEST ON HIGHWAY 412 FOR 1.61 KM (1.00 MI) TO STATION ON THE LEFT, SET IN FRONT OF ARHD DISTRICT 10. THE STATION IS A PUNCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH ARHD LOGO CAP. NOTE--THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HIGHWAY 412	S	17.80	58.4
MK # 2	SOUTH END OF THE AHTD SIGN	W	5.06	16.6
MK # 3	BACK OF CURB	N	5.06	16.6

AZ Mark Station	280009
Geodetic Azimuth	80 43 42
Grid Azimuth	79 52 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR1
Ref Mon # 2	BUTLER
Ref Mon # 3	480016 (Brinkley shop)

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS mark PAR 1.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ALLEN	3/6/2004	AHTD	OUACHITA	CR 577	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	484,398.2382
Easting (M)	321,308.4950
Elevation (M)*	
Northing (SFT)	1,589,229.8865
Easting (SFT)	1,054,159.6207
Elevation (SFT)*	
Convergence Angle	0 28 24.8950947
Scale Factor	0.999974699
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	25	28.8214536
Longitude	92	50	46.1380452
Ellipsoid Height (M):	26.975		
Geoid Height (M):	-26.171		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 376 AND STATE HIGHWAY 7, SOUTH OF CAMDEN, GO SOUTH ON HIGHWAY 7 FOR 2.5 MILES TO STATE HIGHWAY 376 AND TURN RIGHT (SOUTH), AND GO 3.4 MILES TO ELLIOTT AND OUACHITA COUNTY ROAD 53, TURN RIGHT (WEST) ON COUNTY ROAD 53 AND GO 1.4 MILES TO A CROSS ROAD AND TURN LEFT (SOUTH) ON COUNTY ROAD 51 AND GO 1.5 MILES TO COUNTY ROAD 577 AND TURN LEFT (EAST) AND GO 0.65 MILES TO A GATE, PASS THRU THE GATE AND FOLLOW THE FIELD ROAD FOR 0.1 MILES PASSING A GARDEN ON THE RIGHT AND PAST A HOUSE ON THE LEFT TO THE STATION MARK. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "ALLEN 2004" ON TOP OF A 1.22 METER IRON ROD SET IN CONCRETE FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHWEST CORNER OF METAL BUILDIN G	0	13.30	43.6
MK # 2	SOUTHEAST CORNER OF METAL BUILDING	19	13.05	42.8
MK # 3	2" RED MAPLE TREE	350	11.80	38.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE,TEXARKANA
Ref Mon # 2	1ULM
Ref Mon # 3	MEM2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
LMYPORT AZ M	1/1/1990	NGS	ARKANSAS	N/A	020329

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	594,110.0359	
Easting (M)	449,028.7770	
Elevation (M)*	63.260	
Northing (SFT)	1,949,176.0094	
Easting (SFT)	1,473,188.5792	
Elevation (SFT)*	207.546	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	24	56.2270752	
Longitude	91	27	59.9493924	
Ellipsoid Height (M):	36.800			
Geoid Height (M):	-26.400			

Convergence Angle	0	17	54.6344433	
Scale Factor	0.999940535			
Elevation Adjust. Factor	0.9999900725			
Combined Adjust. Factor	0.9999306081			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Description

THE STATION IS LOCATED ABOUT 17 KM (10.55 MI) NORTHWEST OF DEWITT, 12 KM (7.45 MI) SOUTHEAST OF STUTTGART, 5 KM (3.10 MI) WEST-NORTHWEST OF ALMYRA, AT THE ALMYRA MUNICIPAL AIRPORT, IN THE NORTHWEST AREA OF THE AIRFIELD, BETWEEN THE WINDSOCK AND A TAXIWAY LEADING TO RUNWAY END 17. OWNERSHIP--CITY OF ALMYRA, PO BOX 104, ALMYRA AR 72160. AIRPORT MANAGERS ARE MARK HARTZ AND SCOTT GEOTZ, PO BOX 104, ALMYRA AR 72160, PHONE 501-992-3386 OR 992-3333. TO REACH THE STATION FROM THEJUNCTION OF STATE HIGHWAYS 130 AND SPUR 130 (WEST MAIN) ON THE WEST SIDE OF ALMYRA, GO NORTH ON HIGHWAY 130 FOR 1.03 KM (0.65 MI) TO COUNTY HIGHWAY 980 (ALMYRA AIRPORT ROAD). TURN LEFT, WEST ON THE PAVED ROAD FOR 4.43 KM (2.75 MI) TO THE PAVED AIRPORT ENTRANCE ON THE LEFT. TURN LEFT, SOUTH ON THE ROAD PASSING THE AIRPORT OFFICE FOR 0.08 KM (0.05 MI) TO THE SOUTH SIDE OF THE APRON AND THE Y-JUNCTION OF TWO TAXIS. TURN RIGHT, SOUTHWEST, THEN NORTHWEST ALONG THE TAXI FOR0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE-FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	THE EAST 1 OF 3 THRESHOLD LIGHTS FOR RUNWAY END 17	E-SE	64.10	210.3
MK # 2	THE CENTER OF RUNWAY 10-28	N-NE	40.50	132.9
MK # 3	THE NORTHEAST EDGE OF THE TAXIWAY	N-NE	10.10	33.1

AZ Mark Station	ALMYPORT
Geodetic Azimuth	105 44 58.9
Grid Azimuth	105 27 04.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
P 1970 STA A3 HC	1/1/1970	CGS	GARLAND	70	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	601,934.9328	
Easting (M)	299,918.1030	
Elevation (M)*	162.190	
Northing (SFT)	1,974,848.1920	
Easting (SFT)	983,981.3096	
Elevation (SFT)*	532.118	

Convergence Angle	0	36	35.4018381
Scale Factor	0.999948967		
Elevation Adjust. Factor	0.9999745477		
Combined Adjust. Factor	0.9999235160		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	28	57.0396252
Longitude	93	5	22.5270132
Ellipsoid Height (M):	134.960		
Geoid Height (M):	-27.200		

Location Description

THE STATION IS LOCATED ON THE SOUTHWEST SIDE OF HOT SPRINGS, AT THE HOT SPRINGS MEMORIAL FIELD AIRPORT, IN THE NORTHEAST AREA OF THE AIRFIELD, ALONG THE SOUTHEAST SIDE OF AND ABOUT IN LINE WITH RUNWAY END 23. OWNERSHIP--CITY OF HOT SPRINGS, 525 AIRPORT ROAD, HOT SPRINGS NATIONAL PARK AR 71913. AIRPORT MANAGER IS GEORGE DOWNIE, PHONE 501-624-3306. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 70 AND 270B ON THE SOUTHWEST SIDE OF HOT SPRINGS, GO SOUTHWEST ON HIGHWAY 70 FOR 1.29 KM (0.80 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, SOUTH-SOUTHWEST ON THE ROAD FOR 0.32 KM (0.20 MI) TO A GATE ON THE RIGHT AT THE APRON JUST EAST OF THE TERMINAL. TURN RIGHT, SOUTHEAST, PASSING THROUGH THE GATE AND ACROSS THE APRON, PASSING TO THE RIGHT OF THE AIRPORT OFFICE FOR 0.08 KM (0.05 MI) TO THE PARALLEL TAXI FOR RUNWAY 5-23. TURN LEFT, NORTHEAST ALONG THE TAXI FOR 0.39 KM (0.25 MI) TO THE JUNCTION OF RUNWAY END 23 AND THE STATION AHEAD. THE STATION IS SET INSIDE A 12 CM DIAMETER CONCRETE WELL CASING WITH A 50 CM ROUND FOUNDATION SET FLUSH WITH THE GROUND. THE DISK IS RECESSED 30 CM BELOW THE GROUND INSIDE OF THE WELL

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	THE FIRST RUNWAY LIGHT FROM THE RUN WAY END	E-NE	52.10	170.9
MK # 2	THE SOUTHEAST EDGE OF THE RUNWAY	SE	17.00	55.8
MK # 3	THE CENTER OF THE REIL	W-NW	8.20	26.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
EPT OF CORREC	10/21/1996		PULASKI	386	6905_5

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	614,650.4003	
Easting (M)	381,650.7832	
Elevation (M)*		

Northing (SFT)	2,016,565.5217	
Easting (SFT)	1,252,132.6112	
Elevation (SFT)*		

Convergence Angle	0	6	43.0691693
Scale Factor			0.999967386
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	36	6.4062072
Longitude	92	12	0.1641528
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

A 3/4" X 4' LONG REBAR WAS SET WITH AN ALUMINIMUM CAPP ON TOP FLUSH WITH THE GROUND BY A 4"X4" CONCRETE MONUMENT PROJECTING 2 FT ABOVE THE GROUND IN POOR CONDITION NEAR CENTER OF SECTION 28 T-1-S, R-11-W

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	R 107
Ref Mon # 3	SALIPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ARCO PN-1	7/10/2002	AHTD	ARKANSAS	165	020329, 2735_3

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	601,293.2469
Easting (M)	442,172.1420
Elevation (M)*	
Northing (SFT)	1,972,742.9275
Easting (SFT)	1,450,693.1025
Elevation (SFT)*	
Convergence Angle	0 15 25.0559610
Scale Factor	0.999948717
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	28	50.4309180
Longitude	91	32	27.2014404
Ellipsoid Height (M):	38.721		
Geoid Height (M):	-26.410		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-165 AND STATE HWY-130 ON THE EAST SIDE OF STUTTGART, GO NORTH ON HWY-165 FOR 0.10 MILES TO THE STATION ON THE LEFT. 32.50FT. WEST OF THE CENTER OF HWY-165 AND 5.20FT. WEST OF THE BACK OF THE CURB.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTH EDGE "RICELAND" SIGN	301	24.99	82.0
MK # 2	CENTER OF MANHOLE	0	24.08	79.0
MK # 3				

AZ Mark Station	ARCO PN-2
Geodetic Azimuth	4 58 06
Grid Azimuth	4 42 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	J 112
Ref Mon # 3	LROC

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ARCO PN-2	7/10/2002	AHTD	ARKANSAS	165	020329, 2735_3

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	601,600.2578	
Easting (M)	442,197.4440	
Elevation (M)*		
Northing (SFT)	1,973,750.1791	
Easting (SFT)	1,450,776.1142	
Elevation (SFT)*		

Convergence Angle	0	15	25.6411808
Scale Factor			0.999949094
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	29	0.3909372
Longitude	91	32	26.1558276
Ellipsoid Height (M):	38.804		
Geoid Height (M):	-26.415		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-165 AND STATE HWY-130 ON THE EAST SIDE OF STUTTGART, GO NORTH ON HWY-165 FOR 0.30 MILES TO THE STATION ON THE RIGHT. 35.0 FT. EAST OF THE CENTER OF HWY-165 AND 21.0 FT. NORTH OF A PAVED DRIVEWAY.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	169	16.55	54.3
MK # 2	METAL SIGN POST	008	15.70	51.5
MK # 3				

AZ Mark Station	ARCO PN-3
Geodetic Azimuth	1 33 49
Grid Azimuth	1 18 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	J 112
Ref Mon # 3	LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ARCO PN-3	7/10/2002	AHTD	ARKANSAS	165	2735_3

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	601,942.4759
Easting (M)	442,205.2480
Elevation (M)*	
Northing (SFT)	1,974,872.9397
Easting (SFT)	1,450,801.7178
Elevation (SFT)*	

Convergence Angle	0	15	25.8460625
Scale Factor			0.999949517
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	29	11.4961020
Longitude	91	32	25.7897652
Ellipsoid Height (M):	38.966		
Geoid Height (M):	-26.420		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-165 AND STATE HWY-130 ON THE EAST SIDE OF STUTTGART, GO NORTH ON HWY-165 FOR 0.50 MILES TO THE STATION ON THE RIGHT. 60 FEET SOUTH OF THE CENTER OF A CONCRETE DRIVEWAY AND 42 FEET EAST OF THE CENTER OF HWY-165.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	001	7.83	25.7
MK # 2	CENTER OF STORM DRAIN MANHOLE	194	13.87	45.5
MK # 3				

AZ Mark Station	ARCO PN-2
Geodetic Azimuth	181 33 49
Grid Azimuth	181 18 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	ALMYPORT
Ref Mon # 2	J 112
Ref Mon # 3	LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ARKANA RESET	1/1/1965	NGS	BAXTER	5	009813,012231

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	217,009.9618	0.0030
Easting (M)	371,121.0966	0.0030
Elevation (M)*	297.113	
Northing (SFT)	711,973.5163	
Easting (SFT)	1,217,586.4644	
Elevation (SFT)*	974.777	

Convergence Angle	0	11	13.4223666
Scale Factor	1.000011462		
Elevation Adjust. Factor	0.9999533755		
Combined Adjust. Factor	0.9999648370		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	36	17	20.0683752
Longitude	92	19	17.2842636
Ellipsoid Height:	268.760		
Grid Northing (Meters)	217,009.9410		
Grid Easting (Meters)	371,121.0820		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	17	20.0690520
Longitude	92	19	17.2836840
Ellipsoid Height (M):	268.685		0.0150
Geoid Height (M):	-28.324		

Location Description

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990 STATION MARK WAS RECOVERED IN GOOD CONDITION. OTHER MARKS NOT SEARCHED FOR. STATION IS LOCATED ABOUT 15.6 KM (9.7 MI) EAST OF GASSVILLE, 9.3 KM (5.8 MI) NORTHWEST OF NORFOLK, AND 8.0 KM (5.0 MI) SOUTHEAST OF MOUNTAIN HOME. OWNERSHIP--BAXTER COUNTY. TO REACH THE STATION FROM THE COUNTY COURTHOUSE IN MOUNTAIN HOME. GO SOUTH ON U.S.HIGHWAY 62 FOR 0.11 KM (0.07 MI) TO THE JUNCTION OF STATE HIGHWAY 5. CONTINUE SOUTH AND SOUTHEASTERLY ON STATE HIGHWAY 5 FOR 7.97 KM (4.95 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO SOUTHEAST ON COUNTY ROAD 62 FOR 0.71 KM (0.44 MI) TO THE STATION ON THE LEFT. JUST BEFORE REACHING A GRAVELED ROAD ON THE RIGHT WITH A PIPE GATE. STATION IS A STANDARD CGS STATION MARK DISK STAMPED---ARKANA 1953 1965---. SET IN THE TOP OF A 30-CM ROUND CONCRETE POST THAT IS FLUSH WITH THE GROUND. IT IS 15.9 KM (9.9 MI) NORTHEAST OF THE EXTENDED CENTER OF A GRAVELED ROAD WITH A PIPE GATE, 7.7 M (25.3 FT) EAST OF THE CENTER OF A GRAVELED ROAD, AND 0.5 M (1.6 FT) SOUTHEAST OF A METAL WITNESS POST. R.M. NO. 3 IS NORTHEAST OF THE STATION AND 46 FEET NORTH OF THE CENTER OF THE DRIVEWAY. THE MARK

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	ARKANA RM 3	57 28 00	10.25	33.6
MK # 2	ARKANA RM 1	58 59 00	7.03	23.1
MK # 3	ARKANA RM2	171 51 00	7.10	23.3

AZ Mark Station	TNEY LOOKOUT TOWER
Geodetic Azimuth	176 45 14.4
Grid Azimuth	176 56 27.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

ELEV WAS EST BY 3RD ORDER DIGITAL LEVELS FROM USGS BM "UE P 12 A" , UE 2 B", UE 3 A" AHTD GPS MON. 030009 & 030004A BY CLS NOV. 2015 DURING JOB 012231.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ARP 2	1/1/1970	CGS	BOONE	980	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	214,524.0180
Easting (M)	296,329.7820
Elevation (M)*	412.780
Northing (SFT)	703,817.5491
Easting (SFT)	972,208.6264
Elevation (SFT)*	1,354.262
Convergence Angle	0 40 16.6874161
Scale Factor	1.000005684
Elevation Adjust. Factor	0.9999352256
Combined Adjust. Factor	0.9999409092

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 15 41.2445160
Longitude	93 9 13.1036904
Ellipsoid Height (M):	384.520
Geoid Height (M):	-28.260

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ON THE NORTHWEST SIDE OF HARRISON, AT THE BOONE COUNTY AIRPORT, AT THE TOP OF A RISE NEAR THE CENTER OF THE AIRFIELD, AND ACROSS THE PARALLEL TAXIWAY FROM THE WINDSOCK. OWNERSHIP--CITY OF HARRISON, 2424 AIRPORT ROAD, HARRISON AR 72601, AIRPORT MANAGER IS JUDY MCCUTCHTON, PHONE 501-741-6954. FBO IS RICH BENSON, PHONE 501-741-4510. CONTACT ONE OF THEM IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION. TO REACH FROM THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 65, ABOUT 10 KM (6.20 MI) NORTHWEST OF HARRISON, GO SOUTHEAST ON HIGHWAYS 62 AND 65 FOR 4.03 KM (2.50 MI) TO A PAVED ROAD RIGHT, COUNTY ROAD 980. TURN RIGHT, SOUTHERLY ON COUNTY ROAD 980 FOR 0.74 KM (0.45 MI) TO THE ENTRANCE ROAD TO THE TERMINAL ON THE RIGHT. CONTINUE SOUTH ON COUNTY ROAD 980 FOR 0.12 KM (0.05 MI) TO A PAVED ROAD RIGHT LEADING TO CROWN AVIATION. TURN RIGHT, WEST ON THE ROAD FOR 0.08 KM (0.05 MI) TO A GATE ON THE LEFT BETWEEN TWO HANGARS. TURN LEFT, SOUTH, PASSING THROUGH THE GATE FOR 0.08 KM (0.05 MI) TO THE APRON. TURN RIGHT, NORTHWEST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE PARALLEL TAXIWAY. TURN LEFT, SOUTH ALONG THE TAXIWAY FOR

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	EAST EDGE OF THE RUNWAY (SLOPE MEASUREMENT)	E	76.10	249.7
MK # 2	A TAXIWAY LIGHT	SW	18.20	59.7
MK # 3	WEST EDGE OF THE TAXIWAY	W	12.10	39.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
B 307	1/1/1985	NOAA	Miller	82	030349

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	486,472.6432	
Easting (M)	215,122.7410	
Elevation (M)*	113.806	
Northing (SFT)	1,596,035.6636	
Easting (SFT)	705,781.8594	
Elevation (SFT)*	373.380	

Convergence Angle	-1	6	45.9288069
Scale Factor	0.999973700		
Elevation Adjust. Factor	0.9999821404		
Combined Adjust. Factor	0.9999558408		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	25	48.4360176	
Longitude	93	59	17.3976504	
Ellipsoid Height (M):	86.961			
Geoid Height (M):	-26.814			

Location Description

To reach the station from the junction of highways 82 and 245 on the southeast side of Texarkana go east on hwy-82 for 0.90 miles to the station on the right.507.5 feet west of the center of Meadow road, 60.7 feet south of the center of hwy-82, 15.4 feet west of the center of a driveway and 0.98 feet north of a witness post. Access to datum point is through a 5 inch logo cap.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination pole	NE	2.20	7.2
MK # 2	Fence corner	E	1.60	5.2
MK # 3				

AZ Mark Station	460039
Geodetic Azimuth	277 08 42
Grid Azimuth	278 15 28

Area Reference Monuments (used for Processing)

Ref Mon # 1	460026,460026A
Ref Mon # 2	ARHP, B 307
Ref Mon # 3	TXMA, 460001

Comments

This is a NGS first order benchmark.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
B 316			LAWRENCE	63	100646

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,963.1869	
Easting (M)	488,432.8970	
Elevation (M)*	79.017	
Northing (SFT)	633,080.0557	
Easting (SFT)	1,602,466.9296	
Elevation (SFT)*	259.240	

Convergence Angle	0	34	16.5003409
Scale Factor	0.999971592		
Elevation Adjust. Factor	0.9999875999		
Combined Adjust. Factor	0.9999591922		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	7.1278752
Longitude	91	1	5.8817280
Ellipsoid Height (M):	51.059		
Geoid Height (M):	-27.957		

Location Description

For location description and elevation see NGS data sheet. This station is a 1st order NGS benchmark.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	380008
Geodetic Azimuth	290 35 49
Grid Azimuth	290 01 32

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARMH

Comments

Mark established by NGS 1st Order Levels.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
B 324	11/6/2008	AHTD	Greene	69	100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	189,863.4389
Easting (M)	536,463.6660
Elevation (M)*	79.884
Northing (SFT)	622,910.2991
Easting (SFT)	1,760,047.8775
Elevation (SFT)*	262.088

Convergence Angle	0	52	52.1985543
Scale Factor			0.999966837
Elevation Adjust. Factor			0.9999874637
Combined Adjust. Factor			0.9999543011

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	6.8124588
Longitude	90	29	8.5421760
Ellipsoid Height (M):	51.773		
Geoid Height (M):	-28.099		

Location Description

To reach the station from the junction of highways 412 and 69 in downtown Paragould go south on highway 69 for 1.20 miles to the station on the left. 90.0 feet north of a gravel drive, 52.5 feet from a water well, 29.0 feet south of a gravel drive, 41.4 feet east of the center of hwy-69 and 1.0 feet west of a witness post. The station mark is a steinless steel rod encased in a 6 inch pvc pipe and accessed through a standard logo cap. The rod is driven to a depth of 42.50 feet.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Water well	120	5.30	17.4
MK # 2	Watel well w/concrete foundation	161	12.04	39.5
MK # 3	Power service pole	180	21.46	70.4

AZ Mark Station	A 324
Geodetic Azimuth	357 55 58
Grid Azimuth	357 03 06

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG, ARBT BLMM
Ref Mon # 2	280012,280012A
Ref Mon # 3	280006,280006A

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
B 326	5/7/2009	AHTD	POPE	7	080377, 080606

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	108,627.3912	0.0030
Easting (M)	296,504.7535	0.0020
Elevation (M)*	112.074	
Northing (SFT)	356,388.3660	
Easting (SFT)	972,782.6788	
Elevation (SFT)*	367.696	

Convergence Angle	0	39	44.0774950
Scale Factor	0.999947569		
Elevation Adjust. Factor	0.9999824122		
Combined Adjust. Factor	0.9999299822		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	35	18	25.5059676
Longitude	93	8	17.0631636
Ellipsoid Height:	83.166		
Grid Northing (Meters)	108,627.3911		
Grid Easting (Meters)	296,504.7540		

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	18	25.5059712
Longitude	93	8	17.0631852
Ellipsoid Height (M):	82.938		
Geoid Height (M):	-29.136		

Location Description

SOUTHEAST CORNER OF STATE HIGHWAY 7 AND ASPEN LANE IN RUSSELLVILLE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARLR
Ref Mon # 3	ARHR (ARHP)

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BATEPORT	1/1/1990	NGS	NDEPENDENCI	167	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	154,528.5640	
Easting (M)	431,864.0720	
Elevation (M)*	141.400	
Northing (SFT)	506,982.4637	
Easting (SFT)	1,416,874.0429	
Elevation (SFT)*	463.910	

Convergence Angle	0	12	17.8207228
Scale Factor			0.999938972
Elevation Adjust. Factor			0.9999778102
Combined Adjust. Factor			0.9999167836

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	43	32.5130196
Longitude	91	38	52.0470384
Ellipsoid Height (M):	113.890		
Geoid Height (M):	-27.470		

Location Description

THE STATION IS LOCATED ABOUT 7.7 KM (4.78 MI) SOUTHWEST OF MOOREFIELD, 5.1 KM (3.17 MI) SOUTH OF BATESVILLE, AND 4.2 KM (2.61 MI) NORTHWEST OF SOUTHSIDE. AT THE BATESVILLE REGIONAL AIRPORT. OWNERSHIP--CITY OF BATESVILLE, P.O. BOX 2214, BATESVILLE, AR 72501. TELEPHONE NUMBER 501-251-1244 OR 501-251-1778. THE AIRPORT MANAGER IS MARY AMOS. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 14 AND 25 ABOUT 3.6 KM (2.24 MI) SOUTH OF BATESVILLE, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.03 KM (0.64 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST ON THE AIRPORT ENTRANCE ROAD FOR 0.1 KM (0.06 MI) TO A GATE. PASS THROUGH THE GATE AND GO SOUTHWEST ACROSS AN APRON FOR 0.16 KM (0.10 MI) TO RUNWAY 17-35. CONTINUE AHEAD CROSSING RUNWAY 17-35 AND ALONG TAXIWAY FOR 0.78 KM (0.48 MI) TO THE STATION ON THE LEFT. THE STATION IS SET IN THE TOP OF A 5X8-FOOT ROCK OUTCROP.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	WEST EDGE OF RUNWAY 7-25	N-NW	49.80	163.4
MK # 2	TAXIWAY CENTERLINE	S-SE	48.70	159.8
MK # 3	A CONNECTOR CENTERLINE	E-NE	27.30	89.6

AZ Mark Station	TEPORT AZ MK (FF2138)
Geodetic Azimuth	066 05 58.2
Grid Azimuth	065 53 40.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BATESVILLE	1/1/1989	USC&GS	NDEPENDENCI	167	050000,050186

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	160,002.8740	
Easting (M)	432,459.0620	
Elevation (M)*	122.307	
Northing (SFT)	524,942.7624	
Easting (SFT)	1,418,826.1059	
Elevation (SFT)*	401.270	

Convergence Angle	0	12	32.0599217
Scale Factor	0.999941460		
Elevation Adjust. Factor	0.9999808064		
Combined Adjust. Factor	0.9999222675		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	30.0709560
Longitude	91	38	27.5768196
Ellipsoid Height (M):	94.801		
Geoid Height (M):	-27.506		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 167, STATE HIGHWAY 25 AND STATE HIGHWAY 69 LOCATED ON THE NORTH SIDE OF BATESVILLE, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.25 MILES TO THE STATION ON THE RIGHT. THE STATION IS LOCATED AT THE INTERSECTION OF 12TH AND BOSWELL STREETS IN THE VETERANS MEMORIAL PLAZA. THE STATION IS 14.33 METERS SOUTHEAST OF THE CENTER OF BOSWELL STREET, 32.60 METERS NORTHEAST OF THE CENTER OF 12TH STREET, AND 14.63 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 167. THE STATION MARK IS A STANDARD USC&GS TRIANGULATION STATION DISK STAMPED "BATESVILLE 1934" SET IN THE TOP OF A ROUND CONCRETE POST. THE MARK IS ABOUT 0.50 METERS BELOW THE SURFACE LEVEL OF THE PARK. IT IS ENCASED IN A ROUND PIPE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	125	4.80	15.7
MK # 2	NATURAL GAS RISER	18	9.50	31.2
MK # 3	LIGHT POLE	293	5.15	16.9

AZ Mark Station	320023
Geodetic Azimuth	6 37 13
Grid Azimuth	6 24 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	NEWSPORT
Ref Mon # 3	BATEPORT

Comments

NGS 2nd Order Benchmark

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BENTONVILLE 44	1/1/2000	OF BENTONV	BENTON	72	090153

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	231,232.7440	
Easting (M)	206,128.8790	
Elevation (M)*	345.960	
Northing (SFT)	758,636.0943	
Easting (SFT)	676,274.4972	
Elevation (SFT)*	1,135.037	

Convergence Angle	-1	15	27.4183594
Scale Factor	1.000036787		
Elevation Adjust. Factor	0.9999457105		
Combined Adjust. Factor	0.9999824955		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	53.9819160
Longitude	94	9	40.4178444
Ellipsoid Height (M):	317.866		
Geoid Height (M):	-28.094		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I 540 AND STATE HIGHWAY 72, GO EAST ON STATE HIGHWAY 72 FOR 1.67 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 72, 6.30 METERS NORTH OF THE CENTER OF A CONCRETE DRIVE, AND 3.00 METERS EAST OF A WITNESS POST. THE STATION MARK IS A 90 mm BRASS CAP STAMPED " CITY OF BENTONVILLE 44 2000" SET IN A CONCRETE MONUMENT FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH GATE POST	340	6.40	21.0
MK # 2	SOUTH GATE POST	308	3.60	11.8
MK # 3	CORNER OF BRICK FENCE POST	249	3.34	11.0

AZ Mark Station	040040
Geodetic Azimuth	20 34 13
Grid Azimuth	21 49 41

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	SILOAM

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BENTPORT	1/1/1990	USC&GS	BENTON	N/A	090174, 090834

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	225,570.2711
Easting (M)	200,808.6820
Elevation (M)*	395.012
Northing (SFT)	740,058.4644
Easting (SFT)	658,819.8175
Elevation (SFT)*	1,295.969
Convergence Angle	-1 17 28.6382228
Scale Factor	1.000024276
Elevation Adjust. Factor	0.9999380136
Combined Adjust. Factor	0.9999622881

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 20 46.4899920
Longitude	94 13 8.7355020
Ellipsoid Height (M):	366.963
Geoid Height (M):	-28.049

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND 71B IN SOUTH BENTONVILLE, GO SOUTHERLY ON U.S. HIGHWAY 71 FOR 1.25 KM (0.78 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST ON THE AIRPORT ENTRANCE ROAD FOR 0.58 KM (0.36 MI) TO A GRAVELED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE GRAVELED ROAD FOR 0.19 KM (0.12 MI) TO A DRIVEWAY WITH A LOCKED CHAIN GATE ON THE LEFT. TURN LEFT AND GO WEST ON THE DRIVEWAY PASSING THROUGH THE GATE AND THE AIRPORT OFFICE ON THE RIGHT. BEAR RIGHT AND GO NORTH ACROSS AN APRON TO A CONNECTOR LOCATED AT THE NORTH EDGE OF THE APRON. TURN LEFT AND GO WEST ALONG THE CONNECTOR TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS 21.9 METERS EASTOF THE CENTER OF THE RUNWAY, 15.5 METERS NORTH OF THE CONNECTOR CENTERLINE, AND 7.9 METERS NORTHEAST FROM THE CURVED PAVEMENT AT THE JUNCTION OF THE RUNWAY AND CONNECTOR. THE STATION MARK IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	BENTPORT AZ MK
Geodetic Azimuth	359 46 09
Grid Azimuth	1 03 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	JAY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ENTPORT AZ MI	1/1/1990	USC&GS	BENTON	N/A	090174,009834

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	226,133.8171	
Easting (M)	200,819.1130	
Elevation (M)*	392.405	
Northing (SFT)	741,907.3649	
Easting (SFT)	658,854.0399	
Elevation (SFT)*	1,287.415	

Convergence Angle	-1	17	28.6912284
Scale Factor	1.000025459		
Elevation Adjust. Factor	0.9999384227		
Combined Adjust. Factor	0.9999638801		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	4.7753748
Longitude	94	13	8.8265928
Ellipsoid Height (M):	364.355		
Geoid Height (M):	-28.050		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND 71B IN SOUTH BENTONVILLE, GO SOUTHERLY ON U.S. HIGHWAY 71 FOR 1.25 KM (0.78 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST ON THE AIRPORT ENTRANCE ROAD FOR 0.58 KM (0.36 MI) TO A GRAVELED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE GRAVELED ROAD FOR 0.19 KM (0.12 MI) TO A DRIVEWAY WITH A LOCKED CHAIN GATE ON THE LEFT. TURN LEFT AND GO WEST ON THE DRIVEWAY PASSING THROUGH THE GATE AND THE AIRPORT OFFICE ON THE RIGHT AND NORTHWEST ACROSS AN APRON AND WEST ALONG A TAXIWAY FOR 0.14 KM (0.09 MI) TO THE RUNWAY. TURN RIGHT AND GO NORTH ON THE RUNWAY FOR 0.62 KM (0.39 MI) TO THE STATION ON THE RIGHT. THE STATION IS 3.65 METERS EAST OF THE EAST EDGE OF RUNWAY END 17 AND 3.55 METERS EAST-SOUTHEAST FROM THE EAST 1 OF 3 RUNWAY END LIGHTS. THE STATION MARK IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	BENTPORT
Geodetic Azimuth	179 46 09
Grid Azimuth	181 03 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	JAY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BMD3	8/31/2017	AHTD	JEFFERSON	79	020630

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	588,683.6964	0.0020
Easting (M)	419,402.1736	0.0020
Elevation (M)*	59.842	
Northing (SFT)	1,931,373.0939	
Easting (SFT)	1,375,988.6312	
Elevation (SFT)*	196.330	

Convergence Angle	0	7	5.0235980
Scale Factor	0.999935330		
Elevation Adjust. Factor	0.9999906090		
Combined Adjust. Factor	0.9999259396		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	34	22	3.6112440
Longitude	91	47	20.6098440
Ellipsoid Height (M):	33.593		0.0090
Geoid Height (M):	-26.248		

Location Description

From the Wabbaseka United Methodist Church on Hwy 79 go North for 0.7 miles to station on the left a standard Corp of Engineer cap. 30' NE of a witness post, 28' W of CL Hwy 79.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	witness post		9.14	30.0
MK # 2	CL HWY. 79		8.53	28.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPB
Ref Mon # 2	ARLR
Ref Mon # 3	ARWY

Comments

Position and elevation updated by crew S5113 in August 2017 during job 020630, determined by static GPS constraining the ortho. Ht. at ARPB.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BRINKLEYPORT	1/1/1987	NGS	MONROE	70	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	646,218.8521
Easting (M)	475,444.5830
Elevation (M)*	57.251
Northing (SFT)	2,120,136.3506
Easting (SFT)	1,559,854.4361
Elevation (SFT)*	187.831
Convergence Angle	0 27 42.8144506
Scale Factor	1.000028221
Elevation Adjust. Factor	0.9999910155
Combined Adjust. Factor	1.0000192363

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 53 1.5573444
Longitude	91 10 29.0474904
Ellipsoid Height (M):	30.430
Geoid Height (M):	-26.800

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED 6.5 KM (4.05 MI) WEST OF WHEATLEY, 1.6 KM (1.00 MI) EAST OF BRINKLEY, AT THE FRANK FEDERER MEMORIAL AIRPORT, IN THE NORTHEAST AREA OF THE AIRFIELD, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF THE RUNWAY AND A TAXIWAY FROM THE APRON AND OFFICE. OWNERSHIP--CITY OF BRINKLEY, AIRPORT MANAGER IS LEWIS DALTON, 233 WEST CEDAR STREET, BRINKLEY AR 72021, PHONE 501-734-1950. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND U.S. HIGHWAY 49 (EXIT 216) ON THE NORTH SIDE OF BRINKLEY, GO SOUTHERLY ON HIGHWAY 49 FOR 2.4 KM (1.50 MI) TO THE JUNCTION OF U.S. HIGHWAY 70 EAST. TURN LEFT, EAST ON HIGHWAY 70 FOR 1.6 KM (1.00 MI) TO AIRPORT AVENUE ON THE RIGHT. TURN RIGHT, SOUTH ON THE ROAD, PASSING BETWEEN A LARGE BRICK BUILDING AND A ROW OF RED METAL STORAGE SHEDS, FOR 0.16 KM (0.10 MI) TO A METAL HANGAR ON THE LEFT AND A TAXIWAY STRAIGHT AHEAD. CONTINUE AHEAD, SOUTH, THEN SOUTHEAST ALONG THE TAXIWAY FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RUNWAY CENTER	W	27.60	90.6
MK # 2	TAXIWAY CENTER	S	14.00	45.9
MK # 3	TAXIWAY LIGHT AT JUNCTION OF RUNWAY AND TAXIWAY	W-SW	11.60	38.1

AZ Mark Station	EYPORT AZ MK (EH3107)
Geodetic Azimuth	206 10 16.8
Grid Azimuth	205 42 34.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
URLINGTON RES	4/1/1994	rial Data Servic	BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	233,225.5911	
Easting (M)	288,867.3562	
Elevation (M)*	500.479	
Northing (SFT)	765,174.2935	
Easting (SFT)	947,725.6511	
Elevation (SFT)*	1,641.988	

Convergence Angle	0	43	16.1153549
Scale Factor	1.000044585		
Elevation Adjust. Factor	0.9999214647		
Combined Adjust. Factor	0.9999660462		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	44.9698116
Longitude	93	14	21.4525608
Ellipsoid Height (M):	471.339		
Geoid Height (M):	-29.141		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
BUTLER	3/29/2002	AHTD	NDEPENDENCI	167	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	161,696.2150	
Easting (M)	432,866.2190	
Elevation (M)*	87.828	
Northing (SFT)	530,498.3320	
Easting (SFT)	1,420,161.9202	
Elevation (SFT)*	288.149	

Convergence Angle	0	12	41.6383266
Scale Factor	0.999942378		
Elevation Adjust. Factor	0.9999862171		
Combined Adjust. Factor	0.9999285959		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	24.9667548
Longitude	91	38	11.1162264
Ellipsoid Height (M):	60.301		
Geoid Height (M):	-27.527		

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	BATEPORT
Ref Mon # 3	NEWSPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
C 184	6/10/2002	NGS	CRAIGHEAD	N/A	100306

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	165,839.9969	
Easting (M)	537,882.4730	
Elevation (M)*	69.496	
Northing (SFT)	544,093.3898	
Easting (SFT)	1,764,702.7468	
Elevation (SFT)*	228.005	

Convergence Angle	0	53	16.5209154
Scale Factor	0.999944268		
Elevation Adjust. Factor	0.9999890939		
Combined Adjust. Factor	0.9999333625		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	49	6.7230336
Longitude	90	28	26.7439332
Ellipsoid Height (M):	41.596		
Geoid Height (M):	-27.873		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 18 AND STATE HIGHWAY 158 LOCATED 10 MILES EAST OF JONESBORO, GO EAST ON HIGHWAY 18 0.15 MILES TO CRAIGHEAD COUNTY ROAD 800 ON THE RIGHT. TURN RIGHT (SOUTH) ON CRAIGHEAD COUNTY ROAD 800 0.25 MILES TO THE STATION ON THE LEFT. THE STATION IS 7.50 METERS SOUTH OF THE CENTERLINE OF A GRAVEL ROAD (ABANDONED RAILROAD BED),5.75 METERS EAST OF THE CENTERTLINE OF A GRAVEL ROAD, AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A U.S. COAST GUARD AND GEODETIC SURVEY BENCH MARK DISC STAMPED C 184 1956 SET IN TOP OF A 0.30 METER CONCRETE POST PROJECTING 3 INCHES ABOVE THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	254	0.85	2.8
MK # 2	TELEPHONE BOX	126	1.40	4.6
MK # 3	SOUTH END REINFORCED CONCRETE PIPE	335	7.50	24.6

AZ Mark Station	160020
Geodetic Azimuth	292 36 53
Grid Azimuth	291 43 37

Area Reference Monuments (used for Processing)

Ref Mon # 1	VILLPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MANIPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
C 320	2/13/2008	AHTD	PULASKI	NA	061201

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	623,259.6860
Easting (M)	375,692.6680
Elevation (M)*	99.676
Northing (SFT)	2,044,811.1532
Easting (SFT)	1,232,585.0283
Elevation (SFT)*	327.020

Convergence Angle	0	8	54.4379559
Scale Factor			0.999981680
Elevation Adjust. Factor			0.9999843578
Combined Adjust. Factor			0.9999660381

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	40	45.3594180
Longitude	92	15	54.8809164
Ellipsoid Height (M):	73.238		
Geoid Height (M):	-26.438		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF I 530 AND DIXON ROAD (HWY 338, EXIT 3), SOUTH OF LITTLE ROCK, GO APPROXIMATELY 300 FEET AND TURN LEFT ON SHAMBURGER ROAD AND GO 0.40 MILES TO THE STATION MARK ON NTHE LEFT. THE MARK IS A BRASS CAP SET IN A LARGE ROCK OUTCROP 70.3 FEET OF SHAMBURGER ROAD AND EAST 2.00 FEET OF A WITNESS POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WATER METER	85	12.80	42.0
MK # 2	POWER POLE W/GUY	118	13.56	44.5
MK # 3				

AZ Mark Station	600063
Geodetic Azimuth	164 45 20
Grid Azimuth	164 54 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHP

Comments

3 WIRE LEVELS FROM C 320 TO B 287 ON THE 3/2008 BY S5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CARROLL PN-1	7/15/2002	AHTD	CARROLL	143	9562_1

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	229,635.4031	
Easting (M)	254,507.4810	
Elevation (M)*		
Northing (SFT)	753,395.4850	
Easting (SFT)	834,996.6272	
Elevation (SFT)*		

Convergence Angle	0	56	37.2703028
Scale Factor	1.000035299		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	23	32.3192580
Longitude	93	37	18.2460792
Ellipsoid Height (M):	345.866		
Geoid Height (M):	-28.177		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-62, HWY-143 AND CARROLL COUNTY ROAD 980 ABOUT 8 MILES EAST OF EUREKA SPRINGS, GO NORTH ON HWY-143 FOR 0.12 MILES TO THE STATION ON THE LEFT. 9.70 METERS WEST OF THE CENTER OF HWY-143.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	CARROLL CO PN-2
Geodetic Azimuth	175 24 07
Grid Azimuth	176 20 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	LROC

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CARROLL PN-2	7/15/2002	AHTD	CARROLL	62	9562_1

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	229,377.2911
Easting (M)	254,523.9670
Elevation (M)*	
Northing (SFT)	752,548.6626
Easting (SFT)	835,050.7151
Elevation (SFT)*	
Convergence Angle	0 56 36.7861776
Scale Factor	1.000034727
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	23	23.9557488
Longitude	93	37	17.4141048
Ellipsoid Height (M):	335.179		
Geoid Height (M):	-28.174		

Location Description

THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE JUNCTION OF HWY-62, HWY-143 NORTH AND CARROLL COUNTY ROAD 980 SOUTH ABOUT 8 MILES EAST OF EUREKA SPRINGS. 15.3 METERS SOUTH OF THE CENTER OF HWY-62 AND 10.7 METERS EAST OF THE CENTER OF COUNTY ROAD 980.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	175	7.75	25.4
MK # 2	WEST END OF CMP	100	15.95	52.3
MK # 3	"CITGO" SIGN	130	12.25	40.2

AZ Mark Station	CARROLL CO PN-1
Geodetic Azimuth	355 24 07
Grid Azimuth	356 20 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	LROC

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CARROLL PN-3	7/15/2002	AHTD	CARROLL	62	9562_1

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	229,163.0971	
Easting (M)	254,506.1890	
Elevation (M)*		
Northing (SFT)	751,845.9277	
Easting (SFT)	834,992.3884	
Elevation (SFT)*		

Convergence Angle	0	56	37.1188461
Scale Factor	1.000034253		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	23	16.9984860
Longitude	93	37	17.9857992
Ellipsoid Height (M):	329.522		
Geoid Height (M):	-28.172		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-62, HWY-143 AND CARROLL COUNTY ROAD 980 ABOUT 8 MILES EAST OF EUREKA SPRINGS, GO SOUTH ON COUNTY ROAD 980 FOR 0.12 MILES TO THE STATION ON THE RIGHT. 4.4 METERS WEST OF THE CENTER OF COUNTY ROAD 980 AND 3.5 METERS FROM THE CENTER OF A GATED FIELD ENTRANCE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NORTH END OF A CMP	285	2.65	8.7
MK # 2	POWER POLE	050	16.70	54.8
MK # 3	NORTHERN MOST STEEL GATE POST	270	14.00	45.9

AZ Mark Station	CARROLL CO PN-2
Geodetic Azimuth	003 48 03
Grid Azimuth	004 44 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	LROC

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CDH A	1/1/1984	NGS	OUACHITA	79	070258

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,281.8652	
Easting (M)	329,374.9720	
Elevation (M)*	38.360	
Northing (SFT)	1,664,307.2527	
Easting (SFT)	1,080,624.3873	
Elevation (SFT)*	125.853	

Convergence Angle	0	25	33.8238849
Scale Factor			0.999943034
Elevation Adjust. Factor			0.9999939801
Combined Adjust. Factor			0.9999370144

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	37	53.6334204
Longitude	92	45	40.4849160
Ellipsoid Height (M):	12.160		
Geoid Height (M):	-26.210		

Location Description

THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, AT HARRELL FIELD AIRPORT, NEAR THE NORTH END OF THE AIRFIELD, ALONG THE EAST SIDE OF RUNWAY END 18 AND IN LINE WITH THE RUNWAY END. OWNERSHIP--CITY OF CAMDEN, FBO IS JIM ADVANT, PO BOX 26, CAMDEN AR 71701, PHONE 501-574-2642. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 4, ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, GO NORTHEAST ON HIGHWAY 79 FOR 0.48 KM (0.30 MI) TO AIRPORT ROAD ON THE RIGHT. TURN RIGHT, EASTERLY ON THE ROAD FOR 0.13 KM (0.10 MI) TO A PAVED ROAD RIGHT, JUST BEFORE REACHING BUILDING NUMBER 3 ON THE RIGHT. TURN RIGHT, SOUTH-SOUTHWEST ON THE ROAD FOR 0.08 KM (0.05 MI) TO A PARKING LOT ON THE SOUTH SIDE OF THE BUILDING AND A GATE IN THE PIPE FENCE ON THE LEFT AT THE APRON. TURN LEFT, EAST-SOUTHEAST, PASSING THROUGH THE GATE AND ACROSS THE APRON FOR 0.18 KM (0.10 MI) TO THE JUNCTION OF A TAXIWAY. TURN LEFT, NORTH ALONG THE TAXIWAY FOR 0.38 KM (0.25 MI) TO THE JUNCTION OF THE RUNWAY. CROSS THE RUNWAY, THEN TURN LEFT, NORTH ALONG THE RUNWAY FOR 1.36 KM (0.85 MI) TO THE STATION ON THE

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF THE REIL	SE	8.10	26.6
MK # 2	NORTHEAST CORNER OF THE RUNWAY	E	28.70	94.2
MK # 3	RUNWAY CENTER	E	43.80	143.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HERPORT AZ MI	1/1/1990	NGS	SHARP	62	050146,050098

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	214,360.0590	
Easting (M)	439,255.5190	
Elevation (M)*	209.560	
Northing (SFT)	703,279.6269	
Easting (SFT)	1,441,124.1486	
Elevation (SFT)*	687.531	

Convergence Angle	0	15	15.1160422
Scale Factor	1.000006348		
Elevation Adjust. Factor	0.9999671143		
Combined Adjust. Factor	0.9999734621		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	15	52.8035472
Longitude	91	33	47.3630976
Ellipsoid Height (M):	181.300		
Geoid Height (M):	-28.210		

Location Description

THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) EAST OF AGNOS, 10 KM (6.20 MI) SOUTHWEST OF HARDY, 6 KM (3.70 MI) NORTHEAST OF ASH FLAT, AT THE CHEROKEE VILLAGE AIRPORT, NEAR MIDFIELD ALONG THE NORTHWEST SIDE OF THE RUNWAY, JUST NORTHEAST OF THE SOUTHWEST END OF A LOW RISE. OWNERSHIP--CITY OF ASH FLAT. THE AIRPORT IS LEASED BY ED MARKLINE, 20 AIRPORT LANE, ROUTE 4, PO BOX 1, HARDY AR 72542. HE IS ALSO THE AIRPORT MANAGER, PHONE 501-257-2289. CONTACT HIM FOR PERMISSION TO OCCUPY THIS STATION. AN ESCORT MAY BE REQUIRED. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 63 IN HARDY, GO SOUTHWESTERLY ON HIGHWAY 63 FOR 10.7 KM (6.65 MI) TO THE SOUTHWEST ONE OF TWO JUNCTIONS OF STATE HIGHWAY 175S ON THE RIGHT. CONTINUE AHEAD, SOUTHWEST ON HIGHWAY 63 FOR 1.05 KM (0.65 MI) TO A PAVED ROAD RIGHT, ALLEGHENY DRIVE. TURN RIGHT, NORTHERLY ON ALLEGHENY DRIVE FOR 1.14 KM (0.70 MI) TO A PAVED T-JUNCTION. TURN LEFT, WEST AND NORTHWEST ON AIRPORT LANE FOR 0.13 KM (0.10 MI) TO A GATE. CONTINUE AHEAD NORTHWEST, PASSING THROUGH THE GATE AND ACROSS THE APRON FOR ABOUT 40 M (131.2 FT) TO THE RUNWAY. TURN LEFT, SOUTHWEST ALONG THE RUNWAY FOR 0.63 KM (0.40 MI) TO THE STATION

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	670006
Geodetic Azimuth	45 17 28
Grid Azimuth	45 02 13

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	Q 313
Ref Mon # 3	FAA 7M9 A

Comments

ELEV BY 3 WIRE FROM NGS PT D 167

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CLARPORT	1/1/1990	NGS	JOHNSON	64	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	127,071.8191
Easting (M)	270,607.6540
Elevation (M)*	135.900
Northing (SFT)	416,901.4598
Easting (SFT)	887,818.6115
Elevation (SFT)*	445.865

Convergence Angle	0	49	46.7102420
Scale Factor			0.999937903
Elevation Adjust. Factor			0.9999786733
Combined Adjust. Factor			0.9999165776

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	28	13.0298016
Longitude	93	25	32.6941356
Ellipsoid Height (M):	106.880		
Geoid Height (M):	-29.020		

Location Description

STATION IS LOCATED ABOUT 21.6 KM (13.4 MI) NORTHEAST OF COAL HILL, 7.6 KM (4.7 MI) NORTHWEST OF LAMAR, AND 3.4 KM (2.1 MI) EAST-NORTHEAST OF CLARKSVILLE. AT THE CLARKSVILLE MUNICIPAL AIRPORT. OWNERSHIP--CITY OF CLARKSVILLE, P.O.BOX 583, CLARKSVILLE AR 72803. AIRPORT MANAGER IS GEORGE EVANS, P.O.BOX 1072, CLARKSVILLE AR 72830. PHONE IS 501-754-8899. TO REACH THE STATION FROM THE COUNTY COURTHOUSE IN CLARKSVILLE, GO ASTERLY ON U.S.HIGHWAY 64 FOR 2.91 KM (1.81 MI) TO A PAVED DRIVEWAY ON THE LEFT. TURN LEFT AND GO NORTH ON THE AIRPORT ENTRANCE ROAD AND ACROSS A PARKING LOT FOR 0.06 KM (0.04 MI) TO A GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND NORTH ALONG A TAXIWAY FOR 0.11 KM (0.07 MI) TO THE RUNWAY. TURN RIGHT AND GO ALONG THE RUNWAY TO A TURN AROUND AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 48.0 M (157.5 FT) WEST-SOUTHWEST OF THE FIRST RUNWAY LIGHT EAST OF THE TURN AROUND, 7.4 M (24.3 FT) SOUTH FROM THE SOUTH EDGE OF THE TURN AROUND, 0.65 M (2.13 FT) NORTH FROM A CARSONITE WITNESS POST. RUNWAY HAS BEEN EXTENDED 1520 FEET TO 4520 FEET. THE DISPLACED

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	ARPORT AZ MK (FG1942)
Geodetic Azimuth	270 56 57.0
Grid Azimuth	271 46 43.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
COTTON 2 RM 5	1/1/1977	NGS	PEMISCOT / MO	N/A	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	194,011.8239	
Easting (M)	607,612.9040	
Elevation (M)*	86.064	
Northing (SFT)	636,520.4589	
Easting (SFT)	1,993,476.6692	
Elevation (SFT)*	282.362	

Convergence Angle	1	20	27.8714507
Scale Factor	0.999970354		
Elevation Adjust. Factor	0.9999864939		
Combined Adjust. Factor	0.9999568483		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	3	36.6186564
Longitude	89	41	43.2502404
Ellipsoid Height (M):	57.830		
Geoid Height (M):	-28.250		

Location Description

THE STATION IS LOCATED ABOUT 20.2 KM (12.55 MI) EAST-SOUTHEAST OF STEELE, MO., 12.9 KM (8.00 MI) SOUTH OF CARUTHERSVILLE, MO., AND 0.4 KM (0.25 MI) EAST OF COTTONWOOD POINT. IN THE GRASS, ON TOP OF THE LEVEE, JUST SOUTHEAST OF THE JUNCTION OF THE GRAVEL LEVEE ROAD AND A GRAVEL ROAD LEADING NORTHEAST, DOWN FROM THE TOP OF THE LEVEE. OWNERSHIP--PEMISCOT COUNTY, CITY CLERK IS JOHN ALFORD, COUNTY COURTHOUSE, CARUTHERSVILLE, MO. 63830. PHONE 573-333-4203. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 164 AND STATE ROUTE E, NEAR THE SOUTHWEST EDGE OF COTTONWOOD POINT, GO SOUTHEAST, 0.49 KM (0.30 MI) ALONG HIGHWAY 164 TO THE TOP OF THE GRAVEL LEVEE CROSSROAD. TURN RIGHT, SOUTH, 0.21 KM (0.15 MI) ALONG THE TOP LEVEE ROAD, TO A GRAVEL CROSSROAD AND THE STATION ON THE LEFT, JUST SOUTHEAST OF THE JUNCTION. THE STATION IS 12.1 M (39.7 FT) NORTHEAST OF A METAL LEVEE SIGN (ST. FRANCIS LEVEE DIST.) , 10.4 M (34.1 FT) EAST OF THE GRAVEL LEVEE ROAD CENTER, 6.5 M (21.3 FT) SOUTHEAST OF A GRAVEL ROAD CENTER, 2.2 M (7.2 FT) EAST-SOUTHEAST OF A METAL WITNESS POST, AND THE MONUMENT IS ABOUT LEVEL WITH THE LEVEE ROAD AND FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	2 RM 5 AZ MK (GD1721)
Geodetic Azimuth	359 33 40.3
Grid Azimuth	358 13 12.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
CRAWFORD	2/11/1996	NGS	BAXTER	201	009814

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	239,494.3062	
Easting (M)	371,176.1690	
Elevation (M)*	262.400	
Northing (SFT)	785,740.9029	
Easting (SFT)	1,217,767.1478	
Elevation (SFT)*	860.891	

Convergence Angle	0	11	13.8510205
Scale Factor	1.000061251		
Elevation Adjust. Factor	0.9999588226		
Combined Adjust. Factor	1.0000200711		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	29.4890064
Longitude	92	19	18.0203304
Ellipsoid Height (M):	233.980		
Geoid Height (M):	-28.450		

Location Description

THE STATION IS LOCATED IN SECTION 13, TWP 21 N, RNG 13 W, ABOUT 0.5 MI (0.8 KM) SOUTH OF THE ARKANSAS-MISSOURI STATE LINE, 1 MI (1.61 KM) EAST OF STATE HIGHWAY 201, ON THE RIGHT-OF-WAY OF COUNTY ROAD NUMBER 37. TO REACH THE STATION FROM THE COURTHOUSE IN MOUNTAIN HOME, GO NORTH ON ARKANSAS STATE HIGHWAY 201 FOR 12.6 MI (20.3 KM) TO THE JUNCTION OF COUNTY ROAD NUMBER 37 0N RIGHT. TURN RIGHT AND GO EAST FOR 0.90 MI (1.45 KM) ON COUNTY ROAD 37 TO THE STATION ON THE LEFT. THE STATION IS 22 FT (6.7 M) NORTHEAST OF THE CENTERLINE OF COUNTY ROAD 37, 3.5 FT (1.1 M) SOUTH OF AN 8-INCH WOODEN FENCE POST WITH SIGN AND 26.7 FEET (8.1 M) NORTHWEST OF A GRAVEL DRIVEWAY TO THE CRAWFORD RESIDENCE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
D 210	1/1/1962	NGS	CONWAY	95	080BR7

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,856.9281	
Easting (M)	333,499.1210	
Elevation (M)*	186.343	
Northing (SFT)	357,141.4383	
Easting (SFT)	1,094,155.0328	
Elevation (SFT)*	611.360	

Convergence Angle	0	25	31.9685125
Scale Factor	0.999947134		
Elevation Adjust. Factor	0.9999707576		
Combined Adjust. Factor	0.9999178931		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	44.3496420
Longitude	92	43	52.7046024
Ellipsoid Height (M):	157.946		
Geoid Height (M):	-28.397		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 95 AND 213N, NORTH OF MORRILTON, GO NORTH ON 95 FOR 3.0 MILES TO THE MARK ON THE LEFT, 160 FEET NORTH OF A PAVED ROAD (MISSLE ROAD) TO THE EAST, 30 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 1 FOOT EAST OF A FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "D 210 1962" SET IN A CONCRETE POST PROJECTING 3 INCHES ABOVE THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARFY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
D 294	1/1/1984	NGS	JOHNSON	64	R80072

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	112,476.2451	
Easting (M)	280,419.3720	
Elevation (M)*	124.944	
Northing (SFT)	369,015.8141	
Easting (SFT)	920,009.2230	
Elevation (SFT)*	409.920	

Convergence Angle	0	45	55.7576350
Scale Factor	0.999944973		
Elevation Adjust. Factor	0.9999803926		
Combined Adjust. Factor	0.9999253667		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	20	23.8877268
Longitude	93	18	55.7995608
Ellipsoid Height (M):	95.680		
Geoid Height (M):	-29.260		

Location Description

THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) NORTHWEST OF RUSSELLVILLE, 5 KM (3.10 MI) WEST OF LONDON, IN THE EAST QUADRANT OF THE JUNCTION OF U.S. HIGHWAY 64 AND STATE HIGHWAY 359, AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 315 (EXIT 67), ABOUT 24 KM (14.90 MI) NORTHWEST OF RUSSELLVILLE, GO SOUTHWEST ON HIGHWAY 315 FOR 0.56 KM (0.35 MI) TO THE JUNCTION OF U.S. HIGHWAY 64. TURN LEFT, SOUTHEAST ON HIGHWAY 64 FOR 6.35 KM (3.95 MI) TO THE JUNCTION OF STATE HIGHWAY 359 ON THE LEFT. CONTINUE AHEAD, SOUTHEAST ON HIGHWAY 64 FOR 0.11 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 5 CM BELOW THE GROUND. IT IS 15.5 M (50.9 FT) NORTHEAST OF AND ABOUT 2 M (6.6 FT) HIGHER THAN THE CENTER OF HIGHWAY 64, 0.5 M (1.6 FT) SOUTHEAST OF A FIBERGLASS WITNESS POST IN A FENCE LINE AND 0.3 M (1.0 FT) SOUTHWEST OF THE FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CENTER OF A GRAVEL DRIVE	NW	10.10	33.1
MK # 2	TALL STEEL TELEPHONE CABLE WARNING POST	SE	4.90	16.1
MK # 3	TALL STEEL TELEPHONE CABLE WARNING POST	NW	4.00	13.1

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elevation based on Published NGS Value

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
D 50	1/1/1934	USC&GS	WASHINGTON	62	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	183,220.5970	
Easting (M)	178,921.5970	
Elevation (M)*	426.014	
Northing (SFT)	601,116.2420	
Easting (SFT)	587,011.9395	
Elevation (SFT)*	1,397.681	

Convergence Angle	-1	25	34.6297746	
Scale Factor	0.999957383			
Elevation Adjust. Factor	0.9999331490			
Combined Adjust. Factor	0.9998905348			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	57	36.0435384	
Longitude	94	27	3.9172860	
Ellipsoid Height (M):	397.205			
Geoid Height (M):	-28.809			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-62 & MAIN STREET IN LINCOLN GO WESTERLY ON HWY-62 FOR ABOUT 2.0 MILES TO A SIDE ROAD RIGHT AND STATION ON THE RIGHT, ABOUT 100 FEET NORTH OF THE CENTERLINE OF HWY-62, 24 FEET WEST OF THE CENTER OF A NORTH-SOUTH ROAD AND NEAR THE SOUTHEAST CORNER OF A FIELD.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SPRINGDALE
Ref Mon # 2	DENNIS
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
D 52	1/1/1934	NGS	CLEBURNE	NA	050228

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	124,889.2000	
Easting (M)	396,477.8100	
Elevation (M)*	274.041	
Northing (SFT)	409,740.6503	
Easting (SFT)	1,300,777.6150	
Elevation (SFT)*	899.083	

Convergence Angle	0	1	21.2870838
Scale Factor			0.999938310
Elevation Adjust. Factor			0.9999569959
Combined Adjust. Factor			0.9998953085

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	27	32.5818108	
Longitude	92	2	19.6927404	
Ellipsoid Height (M):	246.617			
Geoid Height (M):	-27.424			

Location Description

2.45 MILES SOUTHWEST ALONG STATE HIGHWAY 25 FROM THE RAILROAD STATION AT HEBER SPRINGS, 44.0 FEET WEST OF THE CENTER OF A PRIVATE DRIVE, 30.5 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 17.2 FEET EAST OF A 'FENCE CORNER, ABOUT 2.5 FEET ABOVE THE LEVEL OF THE HIGHWAY, SET IN TOP OF A SQUARE CONCRETE POST PROJECTING 0.9 FOOT ABOVE GROUNDSURFACE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
D 52-1	1/1/1934	NGS	CLEBURNE	NA	050175

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 5, SOUTH OF HEBER SPRINGS, GO SOUTH ON HIGHWAY 5 0.15 MILES TO THE STATION MARK ON THE LEFT, 44.0 FEET WEST OF THE CENTER OF A PRIVATE DRIVE, 17.2 FEET EAST OF A FENCE CO

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
D 85	1/1/1935	NGS	WOODRUFF	*	110541

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	74,727.9500	
Easting (M)	468,016.5360	
Elevation (M)*	58.263	
Northing (SFT)	245,169.9493	
Easting (SFT)	1,535,484.2519	
Elevation (SFT)*	191.150	

Convergence Angle	0	26	0.9333777
Scale Factor			0.999986759
Elevation Adjust. Factor			0.9999908568
Combined Adjust. Factor			0.9999776159

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	0	16.5231000
Longitude	91	15	17.5189608
Ellipsoid Height (M):	31.312		
Geoid Height (M):	-26.952		

Location Description

AT COTTON PLANT, WOODRUFF COUNTY, IN THE NORTHWEST CORNER OF THE COUNTY COURTHOUSE LOT, 51 FEET SOUTH OF THE CENTER OF THE JUNCTION OF A SIDE STREET WITH MAIN STREET, 79 FEET NORTHWESTOF THE NORTHWEST CORNER OF THE COURTHOUSE, AND 4 FEET SOUTH OF THE CORNER OF THE IRON FENCE. A STANDARD DISK, STAMPED D 85 1935 AND SET IN THE TOP OF A CONCRETE POST.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	MSOX

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DAWSEY	1/1/1986	NGS	CRITTENDEN	70	110505

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	90,883.0901	
Easting (M)	560,982.4130	
Elevation (M)*	63.039	
Northing (SFT)	298,172.2714	
Easting (SFT)	1,840,489.8000	
Elevation (SFT)*	206.821	

Convergence Angle	1	1	40.7633458
Scale Factor			0.999965869
Elevation Adjust. Factor			0.9999901072
Combined Adjust. Factor			0.9999559765

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	8	22.2476712	
Longitude	90	14	0.1978152	
Ellipsoid Height (M):	35.990			
Geoid Height (M):	-27.160			

Location Description

LOCATED ON THE WEST MEMPHIS MUNICIPAL AIRPORT WHICH IS JUST WEST OF THE CITY OF WEST MEMPHIS, ARKANSAS. AIRPORT IS SOUTH OF US HIGHWAYS 70 AND 79 ABOUT 3.2 MI (5.1 KM) E OF JUNCTION US HIGHWAYS AND STATE ROUTE 147. STATION IS LOCATED IN THE NORTH CENTRAL PORTION OF THE AIRPORT JUST WEST OF THE RAMP AREA BETWEEN A TAXIWAY RUNNING PARALLEL TO THE RUNWAY AND THE RUNWAY. TO REACH FROM THE RAMP AREA TAKE THE TAXIWAY AT THE MIDPOINT OF THE RAMP, JUST SOUTH OF THE SOUTH POLE OF A RADIO BEACON TO THE TAXIWAY RUNNING PARALLEL WITH THE RUNWAY. TURN RIGHT HEAD NORTH ON TAXIWAY ABOUT 341 FT (103.9 M) TO STATION ON LEFT BETWEEN THE TAXIWAY AND RUNWAY JUST NORTHEAST OF THE JUNCTURE OF DRAINAGE DITCHES. STATION IS ABOUT 0.5 FT (15.2 CM) BELOW GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST EDGE OF THE PARALLEL TAXIWAY	W	21.20	69.6
MK # 2	N END OF A CONCRETE HEADWALL	NE	14.30	46.9
MK # 3	WEST END OF A DRAIN PIPE	NW	14.30	46.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire levels ran by crew S5111 from first order NGS mark T 173 to NGS mark C 5 in June 07.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
EN 1 CORS L1 PI		NGS	SEVIER	CR 248	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	562,518.3160
Easting (M)	188,758.2870
Elevation (M)*	199.000
Northing (SFT)	1,845,528.8417
Easting (SFT)	619,284.4799
Elevation (SFT)*	652.886

Convergence Angle	-1	16	53.8698899
Scale Factor			0.999919351
Elevation Adjust. Factor			0.9999687714
Combined Adjust. Factor			0.9998881249

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	6	38.3449932
Longitude	94	17	23.6066892
Ellipsoid Height (M):	171.040		
Geoid Height (M):	-27.980		

Location Description

DESCRIBED BY NATIONAL GEODETIC SURVEY STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE BY ANONYMOUS FTP OR THE WORLDWIDE WEB. FTP CORS.NGS.NOAA.GOV: CORS/COORD AND CORS/STATION_LOG HTTP://WWW.NGS.NOAA.GOV UNDER PRODUCTS AND SERVICES.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DIST2	4/4/1995	AHTD	JEFFERSON	N/A	20197,001930,R20149,02071

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	569,141.5457	0.0030
Easting (M)	407,921.7384	0.0020
Elevation (M)*		

Northing (SFT)	1,867,258.5545	
Easting (SFT)	1,338,323.2367	
Elevation (SFT)*		

Convergence Angle	0	2	53.1742234
Scale Factor			0.999922220
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	34	11	29.8924080	
Longitude	91	54	50.5894140	
Ellipsoid Height (M):			35.169	0.0030
Geoid Height (M):			-25.963	0.0030

Location Description

THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY ANDTRANSPORATION DEPARTMENT DISTRICT 2 HEADQUARTERS IN PINE BLUFF. TO REACH THE STATION FROM THE EASTERN MOST ENTRANCE ON HWY-65 GO THROUGH THE GATE STRAIGHT AHEAD (SOUTH) FOR 0.29 KM (0.18 MI) PASSING THE GAS STATION ON THE RIGHT TO THE END OF THE ASPHALT AND A PAVED ROAD LEFT, GO LEFT (EAST) FOR 0.06 KM (0.04 MI) TO THE STATION ON THE RIGHT. 3.90 METERS SOUTHEAST OF THE CENTER OF THE PAVED ROAD AND 1.50 METERS SOUTHEAST OF THE EDGE OF THE PAVEMENT AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "DIST2 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG THAT IS ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	DISTRICT 2 AZ
Geodetic Azimuth	4 24 08
Grid Azimuth	4 21 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LITTLE ROCK
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DIST2 AZ	5/29/1996	AHTD	JEFFERSON	65	197,R20149,001930,DDK,020

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	569,462.4877	0.0030
Easting (M)	407,946.1723	0.0030
Elevation (M)*		
Northing (SFT)	1,868,311.5117	
Easting (SFT)	1,338,403.4003	
Elevation (SFT)*		

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	Geoid 18			
Latitude	34	11	40.3084320	
Longitude	91	54	49.6245096	
Ellipsoid Height (M):	34.614			0.0030
Geoid Height (M):	-25.966			0.0030

Convergence Angle	0	2	53.7142714	
Scale Factor	0.999922359			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM (4.30 MI) EAST OF PINE BLUFF, GO EAST ON HWY-65 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT, JUST PAST THE EAST ENTRANCE TO THE DISTRICT TWO HEADQUARTERS OF THE ARKANSAS STATE HIGHWAY AND TRANSPORATION DEPARTMENT NEAR THE NORTH EDGE OF A PAVED CULDESAC. 23.65 METERS SOUTH OF THE CENTER OF HWY-65 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "DIST2 AZ 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	64	12.95	42.5
MK # 2	GUY POLE	120	10.25	33.6
MK # 3	POWER POLE	276	33.90	111.2

AZ Mark Station	DISTRICT 2
Geodetic Azimuth	184 24 08
Grid Azimuth	184 21 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LITTLE ROCK
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DIST2 AZ(OLD)	5/29/1996	AHTD	JEFFERSON	65	020197,R20149,001930,DDK

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	569,462.4919
Easting (M)	407,946.1490
Elevation (M)*	60.594
Northing (SFT)	1,868,311.5255
Easting (SFT)	1,338,403.3238
Elevation (SFT)*	198.799

Convergence Angle	0	2	53.7137616
Scale Factor			0.999922359
Elevation Adjust. Factor			0.9999904909
Combined Adjust. Factor			0.9999128507

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	11	40.3176660
Longitude	91	54	49.6163808
Ellipsoid Height:			33.939
Grid Northing (Meters)			569,462.7724
Grid Easting (Meters)			407,946.3802

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	11	40.3085688
Longitude	91	54	49.6254204
Ellipsoid Height (M):			34.738
Geoid Height (M):			-25.856

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-65 AND HWY-425 ABOUT 6.92 KM (4.30 MI) EAST OF PINE BLUFF, GO EAST ON HWY-65 FOR 0.64 KM (0.40 MI) TO THE STATION ON THE RIGHT, JUST PAST THE EAST ENTRANCE TO THE DISTRICT TWO HEADQUARTERS OF THE ARKANSAS STATE HIGHWAY AND TRANSPORATION DEPARTMENT NEAR THE NORTH EDGE OF A PAVED CULDESAC. 23.65 METERS SOUTH OF THE CENTER OF HWY-65 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "DIST2 AZ 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	64	12.95	42.5
MK # 2	GUY POLE	120	10.25	33.6
MK # 3	POWER POLE	276	33.90	111.2

AZ Mark Station	DISTRICT 2
Geodetic Azimuth	184 24 08
Grid Azimuth	184 21 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LITTLE ROCK
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DIST2(OLD)	4/4/1995	AHTD	JEFFERSON	N/A	020197,001930,R20149

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	569,141.5509	
Easting (M)	407,921.7130	
Elevation (M)*	61.170	
Northing (SFT)	1,867,258.5716	
Easting (SFT)	1,338,323.1534	
Elevation (SFT)*	200.689	

Convergence Angle	0	2	53.1736673
Scale Factor			0.999922220
Elevation Adjust. Factor			0.9999904005
Combined Adjust. Factor			0.9999126213

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	11	29.9015808
Longitude	91	54	50.5813464
Ellipsoid Height:			34.517
Grid Northing (Meters)			569,141.8285
Grid Easting (Meters)			407,921.9447

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	11	29.8925772	
Longitude	91	54	50.5904076	
Ellipsoid Height (M):			35.302	
Geoid Height (M):			-25.852	

Location Description

THE STATION IS LOCATED AT THE ARKANSAS STATE HIGHWAY ANDTRANSPORATION DEPARTMENT DISTRICT 2 HEADQUARTERS IN PINE BLUFF. TO REACH THE STATION FROM THE EASTERN MOST ENTRANCE ON HWY-65 GO THROUGH THE GATE STRAIGHT AHEAD (SOUTH) FOR 0.29 KM (0.18 MI) PASSING THE GAS STATION ON THE RIGHT TO THE END OF THE ASPHALT AND A PAVED ROAD LEFT, GO LEFT (EAST) FOR 0.06 KM (0.04 MI) TO THE STATION ON THE RIGHT. 3.90 METERS SOUTHEAST OF THE CENTER OF THE PAVED ROAD AND 1.50 METERS SOUTHEAST OF THE EDGE OF THE PAVEMENT AND 0.50 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD CAP STAMPED "DIST2 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG THAT IS ENCASED IN CONCRETE AND IS FLUSH WITH THE GROUND. THIS STATION WAS UPDATED TO "HARN" ON 1/30/2002.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	DISTRICT 2 AZ
Geodetic Azimuth	4 24 08
Grid Azimuth	4 21 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD LITTLE ROCK
Ref Mon # 2	AHTD LITTLE ROCK
Ref Mon # 3	AHTD MON 1

Comments

ELEVATION BY 3-WIRE USING NOAA BENCH MARK NUMBER J 289 (60.874 METERS) NAVD88

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
E 209	1/1/1986	NGS	CHOCTAW / OK	N/A	NA

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	174.958	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	574.008	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999725441
Combined Adjust. Factor		#Type!

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ABOUT 22 KM (13.65 MI) SOUTH OF ANTLERS, 12 KM (7.45 MI) EAST OF SOPER, 6 KM (3.70 MI) NORTHWEST OF HUGO, AT THE NORTHEAST EDGE OF A LARGE GRASS PASTURE, IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--OKLAHOMA DEPARTMENT OF TRANSPORTATION. TO REACH FROM THE UNDERPASS AT THE JUNCTION OF THE INDIAN NATION TURNPIKE AND U.S. HIGHWAY 70, ABOUT 3 KM (1.85 MI) NORTHWEST OF HUGO, GO NORTHWEST ON HIGHWAY 70 FOR 2.33 KM (1.45 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE TOP CENTER ON A FLANGE ENCASED STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 46.9 M (153.9 FT) SOUTHWEST FROM THE CENTER OF, AND LEVEL WITH HIGHWAY 70, 18.7 M (61.4 FT) NORTHWEST FROM A POWER POLE, 0.58 M (1.90 FT) NORTHWEST OF A METAL WITNESS POST AND 0.2 M (0.7 FT) NORTHEAST FROM A FIBERGLASS WITNESS POST IN A FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST GATE POST AT A FIELD ENTR ANCE	SE	4.80	15.7
MK # 2	A OKDOT WOODEN WITNESS POST	S-SW	0.80	2.6
MK # 3	A OKDOT WOODEN WITNESS POST	S-SE	0.90	3.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

COORDINATES BASED ON OKLAHOMA SOUTH ZONE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
E 292	1/1/1984	NOAA	LINCOLN	65	20137

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	547,848.7440	
Easting (M)	439,385.9070	
Elevation (M)*	50.187	
Northing (SFT)	1,797,400.4209	
Easting (SFT)	1,441,551.9299	
Elevation (SFT)*	164.655	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	59	56.2328052	
Longitude	91	34	25.1209740	
Ellipsoid Height (M):	24.276			
Geoid Height (M):	-25.911			

Convergence Angle	0	14	19.0574963	
Scale Factor	0.999918660			
Elevation Adjust. Factor	0.9999921241			
Combined Adjust. Factor	0.9999107847			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 114, LOCATED IN GOULD, GO NORTHWEST ON U.S. HIGHWAY 65 FOR 1.6 KM (1.00 MI) TO THE STATION ON THE LEFT SET NEXT TO THE GOULD CITY LIMITS SIGN. THE STATION IS 51.51 METERS NORTHWEST OF RAILROAD MILEPOST 419, 14.32 METERS SOUTHWEST OF THE CENTER OF U.S. HIGHWAY 65, 13.28 METERS NORTHEAST OF THE NORTHEAST RAIL, 4.02 METERS SOUTHWEST OF THE SOUTHWEST POST OF THE GOULD CITY LIMITS SIGN, 0.3 METERS SOUTHEAST OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "E 292 1984" SET FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	E 292A
Geodetic Azimuth	142 49 37.48048
Grid Azimuth	142 35 18.41906

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
E 292A	12/8/1988	AHTD	LINCOLN	65	20137

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	547,352.1161	
Easting (M)	439,765.7660	
Elevation (M)*	50.276	
Northing (SFT)	1,795,771.0676	
Easting (SFT)	1,442,798.1840	
Elevation (SFT)*	164.947	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	59	40.0619076	
Longitude	91	34	10.3993212	
Ellipsoid Height (M):	24.365			
Geoid Height (M):	-25.912			

Convergence Angle	0	14	27.2970682
Scale Factor	0.999918711		
Elevation Adjust. Factor	0.9999921101		
Combined Adjust. Factor	0.9999108218		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65 AND STATE HIGHWAY 114 EAST, LOCATED IN GOULD, GO NORTHWEST ON U.S. HIGHWAY 65 FOR 0.975 KM (0.61 MI) TO THE STATION ON THE RIGHT. THE STATION IS 18.30 METERS NORTHWEST OF THE CENTER OF A GRAVEL ENTRANCE TO A METAL BUILDING, 16.92 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "E 292A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	130	14.52	47.6
MK # 2	NORTHWEST END OF PLASTIC CULVERT	158	32.64	107.1
MK # 3	NONE			

AZ Mark Station	E 292
Geodetic Azimuth	322 49 45.71204
Grid Azimuth	322 35 18.41906

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
E 38	1/1/1934	USC&GS	BAXTER	62	R90094

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	226,580.3039	
Easting (M)	371,538.4450	
Elevation (M)*	250.412	
Northing (SFT)	743,372.2137	
Easting (SFT)	1,218,955.7150	
Elevation (SFT)*	821.560	

Convergence Angle	0	11	4.4092137
Scale Factor	1.000031120		
Elevation Adjust. Factor	0.9999607037		
Combined Adjust. Factor	0.9999918225		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	30.5916816
Longitude	92	19	1.7944824
Ellipsoid Height (M):	222.103		
Geoid Height (M):	-28.309		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, HIGHWAY 62B, HIGHWAY 412 EAST, LOCATED ON THE EAST SIDE OF MOUNTAIN HOME, GO EAST ON U.S. HIGHWAY 62 FOR 2.478 KM (1.54 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.00 METERS NORTHWEST OF CENTER LINE OF U.S. HIGHWAY 62 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD BENCH MARK DISK STAMPED E 38 1934 SET IN TOP OF A ROUND CONCETE MONUMENT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	253	14.00	45.9
MK # 2	GUY POLE	70	27.50	90.2
MK # 3				

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	CRAWFORD
Ref Mon # 3	HOMEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ARNHART-HALL	4/19/1997	ARGLS	FAULKNER	65	080505

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	98,772.1871	
Easting (M)	364,828.7650	
Elevation (M)*	107.210	
Northing (SFT)	324,055.0838	
Easting (SFT)	1,196,942.3732	
Elevation (SFT)*	351.737	

Convergence Angle	0	13	29.3324242
Scale Factor			0.999955689
Elevation Adjust. Factor			0.9999831756
Combined Adjust. Factor			0.9999388653

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	13	22.8749700	
Longitude	92	23	10.8466008	
Ellipsoid Height (M):	79.220			
Geoid Height (M):	-27.930			

Location Description

STATION IS AN ARKANSAS HARN DISK SET INTO THE TOP OF A ROUND CONCRETE POST. NO DESCRIPTIVE DATA WERE SUBMITTED TO NGS. FOR ADDITIONAL INFORMATION, CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Previous three wire elevation was 107.2m. There were no notes available. Job 080505 three wire based on NGS benchmarks 14 B and T 208.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DMONDSON RM	1/1/2020	CGS	CRITTENDEN	131	11800,110524

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,124.9311	
Easting (M)	553,953.9400	
Elevation (M)*	62.618	
Northing (SFT)	285,842.3781	
Easting (SFT)	1,817,430.5515	
Elevation (SFT)*	205.440	

Convergence Angle	0	58	57.7392282
Scale Factor	0.999970436		
Elevation Adjust. Factor	0.9999901733		
Combined Adjust. Factor	0.9999606095		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	6	24.3152496
Longitude	90	18	40.3565400
Ellipsoid Height (M):	35.515		
Geoid Height (M):	-27.081		

Location Description

DESCRIBED BY COAST AND GEODETIC SURVEY 1916 (JSB) AT EDMONDSON, ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RR REFERENCE MARK IS A STANDARD BRONZE DISK SET IN CENTER OF SQUARE 'BLOCK OF CONCRETE WHICH FORMED THE SW FOUNDATION PIER OF WATER TANK, 8.96 METERS (29.4 FEET) S OF S RAIL OF MAIN TRACK. IN 1920 REFERENCE MARK WAS RECOVERED AND STAMPED WITH NAME 'AND DATES 1916, 1920. '96 FEET WEST-SOUTHWEST OF CENTER OF CROSSING OF A NORTH-SOUTH PAVED ROAD (STATE HIGHWAY 133)AND MAIN TRACK,

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MSCD
Ref Mon # 2	ARBT
Ref Mon # 3	ZME1

Comments

NGS 1ST ORDER MARK FOUND AND OCCUPIED BY CREW S5102. 3-WIRE LEVELS RAN BY S5104 2-2-07 AND FOUND EDMONDSON RM 1 WAS OFF 0.06' IN COMPARISON TO EDMONDSON 2 RM 3 AND EDMONDSON.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
EVANS AZ 1954		USC&GS	VAN BUREN	16	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	142,318.9810	
Easting (M)	353,154.4880	
Elevation (M)*	463.752	
Northing (SFT)	466,924.8568	
Easting (SFT)	1,158,641.0160	
Elevation (SFT)*	1,521.493	

Convergence Angle	0	18	3.2297148
Scale Factor			0.999936079
Elevation Adjust. Factor			0.9999272275
Combined Adjust. Factor			0.9998633111

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	35	36	54.1913976
Longitude	92	31	1.5420828
Ellipsoid Height (M):	437.263		
Geoid Height (M):	-28.607		

Location Description

FROM THE JCT. OF HWY. 65 AND HWY. 16 ON THE NORTH EDGE OF THE TOWN OF CLINTON, GO WEST ON HWY. 16 FOR 4.10 MILES (6.598 KM) TO THE STATION ON THE RIGHT. THE STATION IS 28 FEET (8.53 METERS) NORTH OF THE CENTER OF HWY. 16 AND ABOUT 3.5 METERS SOUTH OF AN EAST-WEST FENCE LINE. THE STATION MARK IS A STANDARD CAP STAMPED "EVANS 1954" SET IN A ROUND CONCRETE POST THAT PROJECTS 0.30 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	EVANS 1954
Geodetic Azimuth	285 24 19
Grid Azimuth	285 42 22

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

COORDS ARRIVED BY USING EDM DISTANCE OBSERVED S5102 8/1995 AND OBSERVED AZIMUTH FROM STATION'S ORIGINAL OCCUPATION 1954. STATION "EVANS 1954" NOT SUITABLE FOR GPS OCCUPATION BECAUSE UNDER TREES.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
F 93	1/2/1935	USC&GS	MADISON	23	090009, 090557

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	161,645.4077	0.0030
Easting (M)	237,598.3845	0.0030
Elevation (M)*	502.034	
Northing (SFT)	530,331.6418	
Easting (SFT)	779,520.6998	
Elevation (SFT)*	1,647.090	

Convergence Angle	-1	2	43.0561521
Scale Factor			0.999941575
Elevation Adjust. Factor			0.9999212207
Combined Adjust. Factor			0.9998628003

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	46	37.2180684
Longitude	93	47	46.8531636
Ellipsoid Height:			473.998
Grid Northing (Meters)			161,645.4197
Grid Easting (Meters)			237,598.3819

Vertical Determined By:	2nd Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	46	37.2176796	
Longitude	93	47	46.8530520	
Ellipsoid Height (M):			473.943	0.0001
Geoid Height (M):			-28.091	0.0001

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO SOUTH ON STATE HIGHWAY 23 FOR 4.36 KM (2.71 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.28 METERS EAST OF THE CENTER OF STATE HIGWAY 23, 0.50 METERS EAST OF A NGS FIBERGLASS WITNESS POST, 0.50 METERS EAST OF A NGS METALWITNESS POST AND 1.00 METERS EAST OF AN AHTD WITNESS POST. THE STATION MARK IS A USC&GS BENCH MARK DISK STAMPED "F 93 1935" AND SET IN THE TOP OF CONCRETE POST. THE SHOT DISTANCE IS 405.305 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	F 93A
Geodetic Azimuth	210 36 01.01077
Grid Azimuth	211 38 44.05582

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, CTA1 (OLD MAIN)
Ref Mon # 2	ARHR, ARRV (GAYLOR)
Ref Mon # 3	ARFS (OZARPORT)

Comments

HELD NGS PUBLISHED ELEVATION ON THIS MONUMENT ALONG WITH ELEVATIONS ON ARDOT CORS ARFY, ARFS, ARHR & ARRV FIXED IN STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
F 93A	1/11/2000	AHTD	MADISON	23	090009, 090557

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	161,300.4122	0.0020
Easting (M)	237,385.7739	0.0020
Elevation (M)*	505.261	
Northing (SFT)	529,199.7690	
Easting (SFT)	778,823.1599	
Elevation (SFT)*	1,657.676	

Convergence Angle	-1	2	47.8355098
Scale Factor			0.999941393
Elevation Adjust. Factor			0.9999207144
Combined Adjust. Factor			0.9998621121

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	46	25.8995784
Longitude	93	47	55.0670784
Ellipsoid Height:			477.230
Grid Northing (Meters)			161,300.4191
Grid Easting (Meters)			237,385.7577

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	35	46	25.8993624	
Longitude	93	47	55.0664304	
Ellipsoid Height (M):			477.126	0.0080
Geoid Height (M):			-28.097	0.0080

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 23 AND STATE HIGHWAY 16, LOCATED IN BRASHEARS, GO SOUTH ON STATE HIGHWAY 23 FOR 4.76 KM (2.96 MI) TO THE STATION ON THE RIGHT. THE STATION IS 10.45 METERS WEST OF THE CENTER OF STATE HIGEHWAY 23, 0.80 METERS EAST OF A WITNESS POST. THE STATION MARK IS STANDARD 64mm CAP STAMPED " F 93A 2000" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 379.338 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	299	3.10	10.2
MK # 2	WEST END OF RCP	60	7.00	23.0
MK # 3	NONE			

AZ Mark Station	F 93
Geodetic Azimuth	30 35 56.20884
Grid Azimuth	31 38 44.05582

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, CTA1 (OLD MAIN)
Ref Mon # 2	ARHR, ARRV (GAYLOR)
Ref Mon # 3	ARFS (OZARPORT)

Comments

HELD NGS PUBLISHED ELEVATION ON BM F 93 ALONG WITH ELEVATIONS ON ARDOT CORS ARFY, ARFS, ARHR & ARRV FIXED IN STATIC NETWORK ADJUSTMENT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
F 98	1/1/1935	NGS	PULASKI	630	061148,061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	630,232.5565
Easting (M)	367,688.9884
Elevation (M)*	96.072
Northing (SFT)	2,067,687.9791
Easting (SFT)	1,206,326.2894
Elevation (SFT)*	315.196

Convergence Angle	0	11	50.9396354
Scale Factor			0.999994576
Elevation Adjust. Factor			0.9999849234
Combined Adjust. Factor			0.9999794995

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	34	44	30.8561712
Longitude	92	21	10.2371580
Ellipsoid Height:			69.519
Grid Northing (Meters)			630,232.5590
Grid Easting (Meters)			367,688.9760

Vertical Determined By:	2nd Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID09		
Latitude	34	44	30.8560920
Longitude	92	21	10.2366720
Ellipsoid Height (M):	65.519		
Geoid Height (M):	-26.553		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF UNIVERSITY AVE. AND 12th STREET, IN LITTLE ROCK, GO WEST ON 12th STREET FOR 0.50 MILES TO THE STATION MARK ON THE RIGHT, 13.70 FEET NORTH OF THE NORTH EDGE OF A CONCRETE SIDEWALK AND 29.50 FEET WEST OF THE C

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	ROCK FENCE CORNER	89	1.92	6.3
MK # 2				
MK # 3				

AZ Mark Station	600061
Geodetic Azimuth	355 37 23
Grid Azimuth	355 49 42

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	600041, 600054
Ref Mon # 3	600055

Comments

3-wire elevations were ran in Mar 2006 by S5103 & S5113 from NGS Z10 & F98 in Job # 061148.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
FAA 7M9 A	3/25/1997	NGS	FULTON	9	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	224,040.2481
Easting (M)	415,001.6520
Elevation (M)*	232.000
Northing (SFT)	735,038.7140
Easting (SFT)	1,361,551.2533
Elevation (SFT)*	761.153
Convergence Angle	0 5 50.1002032
Scale Factor	1.000025751
Elevation Adjust. Factor	0.9999635930
Combined Adjust. Factor	0.9999893430

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 21 9.2624904
Longitude	91 49 58.3489812
Ellipsoid Height (M):	203.810
Geoid Height (M):	-28.230

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ABOUT 2.41 KM (1.50 MI) SOUTH OF SALEM, AT THE SALEM MUNICIPAL AIRPORT AND IN ROCK OUTCROP. OWNERSHIP--CITY OF SALEM, SALEM CITY HALL, SALEM, AR 72576, AIRPORT MANAGER IS DON D. YOUNG, PHONE 501-895-2796. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 9 AND U.S. HIGHWAY 62 IN SALEM, GO SOUTH ON STATE HIGHWAY 9 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF COUNTY ROAD 980 ON THE LEFT (WITH AIRPORT SIGN), TURN LEFT, SOUTHERLY, ON COUNTY ROAD 980 FOR 0.56 KM (0.35 MI) TO THE AIRPORT ENTRANCE ROAD ON THE LEFT, TURN LEFT, EAST, ON THE ENTRANCE ROAD FOR 0.08 KM (0.05 MI) TO THE APRON, CONTINUE AHEAD ACROSS THE APRON TO THE JUNCTION OF THE RUNWAY, TURN RIGHT, SOUTH, ONTO THE RUNWAY FOR 0.48 KM (0.30 MI) TO THE STATION ON THE RIGHT.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF THE RUNWAY	W	13.70	44.9
MK # 2	SECOND RUNWAY LIGHT NORTH OF THE E ND OF RUNWAY 2	SW	11.60	38.1
MK # 3	A FIBERGLASS WITNESS POST	S	0.30	1.0

AZ Mark Station	FAA 7M9 B (GE1204)
Geodetic Azimuth	023 10 04.8
Grid Azimuth	023 04 14.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
FARINDALE	1/1/1964	NGS	CLEVELAND	167	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	553,414.2600	
Easting (M)	362,165.2270	
Elevation (M)*	84.470	
Northing (SFT)	1,815,659.9514	
Easting (SFT)	1,188,203.7489	
Elevation (SFT)*	277.132	

Convergence Angle	0	13	45.7115745
Scale Factor	0.999918503		
Elevation Adjust. Factor	0.9999867441		
Combined Adjust. Factor	0.9999052482		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	2	57.0804468
Longitude	92	24	35.2998288
Ellipsoid Height (M):	58.474		
Geoid Height (M):	-25.989		

Location Description

To reach the station from the Dallas and Cleveland county line on Hwy-167 north of Fordyce go north on Hwy-167 for 8.09 miles to the station on the rigt on top of a hill. 100 feet east of the center of Hwy-167, 17 feet south of the center of an asphalt drive and 1.65 feet west of a witness post. The station is a USC&GS disc stamped "Farindale 1964" set on top of a concrete post projecting 5 inches.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power pole with guy	208	4.50	14.8
MK # 2	Guy wire base	148	4.10	13.5
MK # 3	Metal gate post	068	4.70	15.4

AZ Mark Station	130022
Geodetic Azimuth	182 42 38
Grid Azimuth	182 56 24

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

This station is a 2nd order triangulation station determined by classical geodetic methods. 3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
FARM	1/1/1965	CGS	CLAIBORNE / LA	N/A	NA

Zone	Zone Code
Arkansas South	
Horizontal Datum	
Northing (M)	#Error
Easting (M)	#Error
Elevation (M)*	108.563
Northing (SFT)	#Type!
Easting (SFT)	#Type!
Elevation (SFT)*	356.177

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999829632
Combined Adjust. Factor		#Type!

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ABOUT 2.5 MI (4.0 KM) SOUTH OF HOMER, 7.0 MI (11.3 KM) NORTH-NORTHWEST OF ATHENS AND 16.0 MI (25.7 KM) NORTHEAST OF MINDEN. OWNERSHIP--NORTH LOUISIANA HILL FARM EXPERIMENT STATION OF THE LOUISIANA STATE UNIVERSITY. TO REACH THE STATION FROM THE COURTHOUSE IN HOMER GO SOUTH FOR 0.4 MI (0.6 KM) ON U. S. HIGHWAY 79 TO WHERE THE HIGHWAY CURVES RIGHT, ANGLE LEFT ACROSS THE RAILROAD TRACKS AND GO SOUTH FOR 2.0 MI (3.2 KM) ON LYONS HILL ROAD TO A T-ROAD INTERSECTION, TURN LEFT AND GO EAST FOR 0.05 MI (0.08 KM) ON A PAVED ROAD TO A SIDE ROAD JUNCTION, TURN RIGHT AND GO SOUTH FOR 0.2 MI (0.3 KM) ON A PAVED ROAD TO THE STATION SET ON THE RIGHT. THE STATION IS 31.0 FT (9.4 M) WEST FROM THE CENTER OF THE ROAD, 25.0 FT (7.6 M) SOUTH-SOUTHEAST FROM THE CENTER OF A PIPE GATE, 2.0 FT (0.6 M) EAST FROM A COMBINATION NET AND BARBED WIRE FENCE, 1.5 FT (0.5 M) EAST FROM A METAL WITNESS POST WITH SIGN ATTACHED, FLUSH WITH THE GROUND SURFACE AND ABOUT 3.0 FT (0.9 M) ABOVE THE LEVEL OF THE ROAD.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	FARM AZ MK (AE8820)
Geodetic Azimuth	161 29 54.8
Grid Azimuth	161 47 34.0

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

COORDINATES BASED ON LOUISIANA NORTH ZONE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
FLINT	1/1/1993	NGS	DELAWARE / OI	N/A	NA

Zone	Zone Code
Arkansas South	
Horizontal Datum	
Northing (M)	#Error
Easting (M)	#Error
Elevation (M)*	346.100
Northing (SFT)	#Type!
Easting (SFT)	#Type!
Elevation (SFT)*	1,135.496
Convergence Angle	### ### #Error
Scale Factor	#Error
Elevation Adjust. Factor	0.9999456886
Combined Adjust. Factor	#Type!

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

STATION IS LOCATED ABOUT 11 KM (6.85 MI) EAST OF KANSAS, 8 KM (4.95 MI) WEST OF WEST SILOAM SPRINGS, 2.5 KM (1.55 MI) SOUTHEAST OF FLINT, AT THE CREST OF A LONG HILL, ALONG US HIGHWAYS 59 AND 412, ON THE HIGHWAY RIGHT-OF-WAY, ADJACENT TO A PASTURE, IN THE SOUTHWEST 1/4 OF SECTION 30, T 20 N, R 25 E, BETWEEN TWO 4 FT (1.2 M) TALL YELLOW WOODEN POSTS. OWNERSHIP--OKLAHOMA DEPARTMENT OF TRANSPORTATION. TO REACH FROM THE JUNCTION OF US HIGHWAYS 59, 412 ALTERNATE (SCENIC) AND STATE HIGHWAY 10 ON THE EAST SIDE OF KANSAS, GO EAST ON HIGHWAYS 59 AND 412 ALTERNATE (TWO-LANE ROAD) FOR 6.55 KM (4.05 MI) TO AN OVERHEAD RAMP AT THE BEGINNING OF THE WESTBOUND CHEROKEE TURNPIKE. CONTINUE AHEAD EAST ON HIGHWAYS 59 AND 412 ALTERNATE (HIGHWAY 412 ALTERNATE BECOMES HIGHWAY 412 JUST EAST OF OVERHEAD RAMP) FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT AT TOP OF GRADE, 105 M (344.5 FT) BEFORE REACHING A MEDIAN CROSSOVER. STATION MARK IS A PUNCH HOLE TOP CENTER ON A STAINLESS STEEL ROD IN A GREASE FILLED SLEEVE ENCASED IN A 12.7 CM PVC PIPE WITH LOGO CAP SURROUNDED BY CONCRETE SET 1 CM BELOW GROUND. IT IS 25.9 M (85.0 FT) EAST OF A GUYED UTILITY POLE AT BEND

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FENCE	N	1.30	4.3
MK # 2	WEST ONE OF THREE BRACED FENCE POSTS	E-NE	2.40	7.9
MK # 3	YELLOW WOODEN POST	E	0.46	1.5

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

COORDINTES BASED ON OKLAHOMA NORTH ZONE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
FOUNTAIN AZ	1/2/1939	USC&GS	ASHLEY	425	R20111

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	476,797.6827
Easting (M)	413,839.6369
Elevation (M)*	59.681
Northing (SFT)	1,564,293.7307
Easting (SFT)	1,357,738.8754
Elevation (SFT)*	195.803

Convergence Angle	0	4	59.6108279
Scale Factor			0.999987450
Elevation Adjust. Factor			0.9999906342
Combined Adjust. Factor			0.9999780843

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	21	32.3453844
Longitude	91	51	4.6849860
Ellipsoid Height (M):	34.034		
Geoid Height (M):	-25.647		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 425 AND U.S. HIGHWAY 82, LOCATED IN HAMBURG, GO NORTH ON U.S. HIGHWAY 425 FOR 15.37 KM (9.55 MI) TO THE STATION ON THE LEFT. THE STATION IS 14.94 METERS WEST OF THE CENTER OF U.S. HIGHWAY 49, 0.52 METERS EAST OF AN A.H.T.D. WITNESS POST AND 0.30 METERS NORTH OF AN N.G.S. WITNESS POST. THE STATION MARK IS A U.S.C.&G.S. AZIMUTH MARK DISK STAMPED "FOUNTAIN RESET 1939" SET IN TOP OF A ROUND CONCRETE MONUMENT SET FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ESTABLISHED BY N.G.S.. THE SHOT DISTANCE IS 591.995 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	020010
Geodetic Azimuth	359 18 11.96728
Grid Azimuth	359 13 12.35781

Area Reference Monuments (used for Processing)

Ref Mon # 1	STELL
Ref Mon # 2	S 197
Ref Mon # 3	AHTD MON 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
FREEMAN	1/1/1964	NGS	Grant	167	001914,RX0028

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	568,179.1490
Easting (M)	363,257.1040
Elevation (M)*	80.355
Northing (SFT)	1,864,101.0913
Easting (SFT)	1,191,786.0154
Elevation (SFT)*	263.631
Convergence Angle	0 13 23.1372075
Scale Factor	0.999921789
Elevation Adjust. Factor	0.9999873899
Combined Adjust. Factor	0.9999091799

Vertical Determined By:	3rd Order - 3 Wire Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 10 56.4424140
Longitude	92 23 54.9661812
Ellipsoid Height (M):	54.343
Geoid Height (M):	-25.993

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 167, 270 AND STATE HIGHHWAY 46, LOCATED IN SHERIDAN, GO SOUTH ON U.S. HIGHWAY 167 FOR 14.56 KM (9.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 42.659 METERS EAST-NORTHEAST OF THE CENTER OF U.S. HIGHWAY 167, 31.034 METERS SOUTHWEST OF FREEMAN RM 1, 29.617 METERS SOUTHEAST OF FREEMAN RM 2, 6.207 METERS SOUTH-SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE WAY, 4.697 METERS NORTH-NORTHWEST OF A N.G.S. WITNESS POST, 4.421 METERS NORTHWEST OF A WEB WIRE FENCE AND 0.50 METERS WEST-SOUTHWEST OF AN A.H.T.D. WITNESS POST. THE STATION MARK IS A N.G.S. TRIANGULATION STATION DISK STAMPED "FREEMAN 1964" SET IN TOP A ROUND CONCRETE MONUMENT AND FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	34 10 56.4525804
Longitude	92 23 54.9559536
Ellipsoid Height:	53.643
Grid Northing (Meters)	568,179.4612
Grid Easting (Meters)	363,257.3671

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Wooden corner post	164	5.26	17.3
MK # 2	3 foot post oak tree	359	16.08	52.7
MK # 3	Telephone junction box	229	26.00	85.3

AZ Mark Station	270003A
Geodetic Azimuth	334 56 16
Grid Azimuth	335 09 39

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

This station is an NGS second order triangulation station established by classical methods. 3-Wire Levels ran from NGS T81-U11-HEYS-H80 in Job 001914 and 020275 by S5105, S5108, and S5111 in Apr/May 2006.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 185	1/1/1956	CGS	MISSISSIPPI	18	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	170,288.4509
Easting (M)	576,678.6790
Elevation (M)*	73.338
Northing (SFT)	558,688.0260
Easting (SFT)	1,891,986.6327
Elevation (SFT)*	240.610
Convergence Angle	1 8 17.7689553
Scale Factor	0.999946856
Elevation Adjust. Factor	0.9999884910
Combined Adjust. Factor	0.9999353476

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 51 8.7829056
Longitude	90 2 37.9393440
Ellipsoid Height (M):	45.450
Geoid Height (M):	-27.880

Location Description

THE STATION IS LOCATED ABOUT 0.4 KM (0.2 MI) SOUTHWEST OF DELL, IN TOP OF THE SOUTHWEST END OF THE NORTHWEST HEADWALL OF A CULVERT AND ON THE NORTHWEST SIDE OF STATE HIGHWAY 18. OWNERSHIP--ARKANSAS DEPARTMENT OF TRANSPORTATION, P.O. BOX 2261, LITTLE ROCK, AR 72203, PHONE 501-569-2211. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 18 AND 181 (NORTH) IN DELL, GO SOUTHWEST ON STATE HIGHWAY 18 FOR 0.32 KM (0.20 MI) TO THE STATION ON THE RIGHT IN TOP OF THE SOUTHWEST END OF THE NORTHWEST HEADWALL OF A CULVERT UNDER HIGHWAY 18. THE STATION IS ABOUT 0.3 M (1.0 FT) BELOW THE LEVEL OF THE HIGHWAY AND LOCATED 6.8 M (22.3 FT) NORTHWEST OF THE CENTER OF HIGHWAY 18, 1.3 M (4.3 FT) SOUTHWEST OF A FIBERGLASS WITNESS POST AND 0.25 M (0.82 FT) NORTHEAST OF THE SOUTHWEST END OF THE HEADWALL.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 23	1/1/1932	NGS	CLARK	67	070265, 070344

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	542,301.7650	
Easting (M)	293,824.2320	
Elevation (M)*	66.489	
Northing (SFT)	1,779,201.7073	
Easting (SFT)	963,988.3345	
Elevation (SFT)*	218.140	

Convergence Angle	0	38	34.3892824
Scale Factor	0.999919700		
Elevation Adjust. Factor	0.9999895658		
Combined Adjust. Factor	0.9999092666		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	56	39.5171916
Longitude	93	8	55.1220180
Ellipsoid Height (M):	39.720		
Geoid Height (M):	-26.604		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON GO NORTH ON HWY-67 FOR 0.80 MILES TO THE STATION ON THE RIGHT. 8.60 METERS SOUTHEAST OF THE CENTER OF HWY-67, 4.50 METERS NORTHEAST OF THE NORTH RAIL. THE STATION MARK IS AN NGS BENCHMARK.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE W/TEL RISER	046	19.40	63.6
MK # 2	RAILROAD SIGNAL	231	12.25	40.2
MK # 3	POWER POLE	210	19.80	65.0

AZ Mark Station	G 23 A
Geodetic Azimuth	038 00 49
Grid Azimuth	038 39 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	C.O.R.S. HOPE
Ref Mon # 2	LROC
Ref Mon # 3	G 23, 100007

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 23 A	2/1/2005	AHTD	CLARK	67	070265, 070344

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	542,852.9730	
Easting (M)	294,265.1440	
Elevation (M)*	70.767	
Northing (SFT)	1,781,010.1289	
Easting (SFT)	965,434.8933	
Elevation (SFT)*	232.175	

Convergence Angle	0	38	24.9134668
Scale Factor	0.999919567		
Elevation Adjust. Factor	0.9999888945		
Combined Adjust. Factor	0.9999084624		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	56	57.5674332
Longitude	93	8	38.1915672
Ellipsoid Height (M):	44.105		
Geoid Height (M):	-26.606		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 67 AND 53 NORTH OF GURDON GO NORTH ON HWY-67 FOR 1.20 MILES TO THE STATION ON THE LEFT IN FRONT OF THE GURDON WOOD PRODUCTS PLANT. 15.80 METERS NORTHWEST OF THE CENTER OF HIGHWAY 67 AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 23 A 2005" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTHEAST CORNER OF A PLANTER	234	17.70	58.1
MK # 2	LIGHT	248	15.45	50.7
MK # 3	WATER METER	040	20.10	65.9

AZ Mark Station	G 23
Geodetic Azimuth	218 00 58
Grid Azimuth	218 39 23

Area Reference Monuments (used for Processing)

Ref Mon # 1	C.O.R.S. HOPE
Ref Mon # 2	LROC
Ref Mon # 3	G 23, 100007

Comments

ELEVATIONS BY CREW S5112 ON 4/6/2011 USING DIGITAL 3 WIRE LEVELS FROM G 23 TO J 192 X.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 292	1/1/1984	NOAA	DESHA	65	R20092

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	543,325.1780
Easting (M)	442,572.0280
Elevation (M)*	48.631
Northing (SFT)	1,782,559.3548
Easting (SFT)	1,452,005.0619
Elevation (SFT)*	159.550
Convergence Angle	0 15 28.1060579
Scale Factor	0.999919353
Elevation Adjust. Factor	0.9999923683
Combined Adjust. Factor	0.9999117219

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 57 28.9608516
Longitude	91 32 21.7518288
Ellipsoid Height (M):	22.702
Geoid Height (M):	-25.929

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 EAST AND U.S. HIGHWAY 65, IN GOULD, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 3.90 KM (2.40 MI) TO THE STATION ON THE LEFT. THE STATION IS 40.23 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65,28.34 METERS SOUTH-SOUTHWEST OF THE SOUTH CORNER OF A BLOCK HOUSE, 7.01 METERS SOUTH OF THE CENTER OF A GRAVEL DRIVEWAY, 6.09 METERS NORTHEAST OF A WITNESS POST AND 6.30 METERS NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACED THROUGH A 0.13 METER LOGO CAP STAMPED "G 292 1984" SET FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	5	0.70	2.3
MK # 2	NORTHWEST CORNER OF WOODEN BARN	145	16.10	52.8
MK # 3	NONE			

AZ Mark Station	G 292A
Geodetic Azimuth	146 46 02.06623
Grid Azimuth	146 30 33.95341

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 292A	12/8/1998	AHTD	DESHA	65	R20092

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	542,856.2280	
Easting (M)	442,882.3080	
Elevation (M)*	49.223	
Northing (SFT)	1,781,020.8080	
Easting (SFT)	1,453,023.0388	
Elevation (SFT)*	161.492	

Convergence Angle	0	15	34.8239977
Scale Factor			0.999919454
Elevation Adjust. Factor			0.9999922754
Combined Adjust. Factor			0.9999117300

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	57	13.6943604
Longitude	91	32	9.7488780
Ellipsoid Height (M):	23.325		
Geoid Height (M):	-25.931		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 114 EAST AND U.S. HIGHWAY 65, IN GOULD, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 4.46 KM (2.77 MI) TO THE STATION ON THE LEFT SET IN THE CENTER OF AN ELEAVATED DRIVE TO A DRY POND. THE STATION IS 20.85 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 2.12 METERS SOUTHEAST OF A WITNESS POST AND 2.00 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 292A 1996" SET ON TOP OF AN IRON 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE = TBM 947	56	18.94	62.1
MK # 2	SOUTHEAST END CMP	80	10.11	33.2
MK # 3				

AZ Mark Station	G 292
Geodetic Azimuth	326 46 08.77054
Grid Azimuth	326 30 33.95341

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 294	1/1/1984	NGS	JOHNSON	64	080497

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	115,588.3589	0.0030
Easting (M)	277,320.1205	0.0030
Elevation (M)*	116.918	
Northing (SFT)	379,226.1408	
Easting (SFT)	909,841.0953	
Elevation (SFT)*	383.589	

Convergence Angle	0	47	8.1549225	
Scale Factor	0.999943042			
Elevation Adjust. Factor	0.9999816521			
Combined Adjust. Factor	0.9999246951			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID12A			
Latitude	35	22	3.5044572	
Longitude	93	21	0.2150892	
Ellipsoid Height (M):	87.632	0.0060		
Geoid Height (M):	-29.306	0.0060		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 315 AND STATE HIGHWAY 64, EAST OF KNOXVILLE, GO EAST ON HIGHWAY 64 FOR 1.25 MILES TO THE MARK ON THE LEFT, 48.5 FEET NORTHEAST OF THE CENTERLINE OF THE HIGHWAY. THE MARK IS A METAL ROD DRIVEN TO REFUSAL AND SET IN A LOGO CAP STAMPED "1984 G 294" .

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH OF SOUTH CORNER OF 1-S-F HOUSE	351	84.00	275.6
MK # 2	LIGHT POLE	318	92.00	301.8
MK # 3	OLD GUY POLE	93	64.50	211.6

AZ Mark Station	360220
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	P777

Comments

ELEVATION BASED ON DIGITAL LEVELS BY S5112 FROM 1ST ORDER NGS BM G 294 IN MARCH OF 2015 FOR JOB #080497.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 309	10/11/2004	NGS	WASHINGTON	265	012007

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	209,473.6569
Easting (M)	209,074.1970
Elevation (M)*	411.166
Northing (SFT)	687,248.1560
Easting (SFT)	685,937.5947
Elevation (SFT)*	1,348.967

Convergence Angle	-1	14	7.7034779
Scale Factor			0.999994122
Elevation Adjust. Factor			0.9999354788
Combined Adjust. Factor			0.9999296012

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	10.3125384
Longitude	94	7	23.4269508
Ellipsoid Height (M):	383.187		
Geoid Height (M):	-27.979		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 265, NORTH OF SPRINGDALE, GO SOUTH ON HIGHWAY 265 FOR 1.5 MILES TO RANDALL WOBBLE LANE AND TURN RIGHT (WEST) AND GO 0.30 MILES TO THE STATION MARK ON THE LEFT, SOUTH OF THE CENTERLINE OF THE ROAD 8.17 METERS AND SOUTH 0.35 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 309 2004" ON TOP OF A 3.4 METER STEEL ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	END OF CHAIN LINK FENXE		2.19	7.2
MK # 2	EAST OF NEAREST RAILROAD RAIL		12.86	42.2
MK # 3	POWER POLE		2.00	6.6

AZ Mark Station	G 309A
Geodetic Azimuth	88 42 12
Grid Azimuth	89 56 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	AGRONOMY
Ref Mon # 2	V 26
Ref Mon # 3	040054

Comments

FIRST ORDER, SECOND CLASS VERTICAL NGS BENCHMARK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 309A	10/6/2004	AHTD	WASHINGTON	265	012007,040520

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	209,474.2880	
Easting (M)	209,664.8770	
Elevation (M)*	422.470	
Northing (SFT)	687,250.2265	
Easting (SFT)	687,875.5173	
Elevation (SFT)*	1,386.054	

Convergence Angle	-1	13	53.9478783
Scale Factor	0.999994145		
Elevation Adjust. Factor	0.9999337050		
Combined Adjust. Factor	0.9999278504		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	12	10.7455644
Longitude	94	6	59.7878028
Ellipsoid Height (M):	394.465		
Geoid Height (M):	-27.977		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 264 AND STATE HIGHWAY 265, NORTH OF SPRINGDALE, GO SOUTH ON HIGHWAY 265 FOR 1.5 MILES TO THE STATION MARK ON THE LEFT, EAST 22.7 METERS OF THE CENTERLINE OF THE HIGHWAY AND IT'S JUNCTION WITH RANDALL WOBBLE LANE, AND WEST 1.4 METERS OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "G 309A 2004" ON TOP OF A 0.80 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CULVERT		7.80	25.6
MK # 2	NORTH END OF CONC DRAINAGE DITCH		24.90	81.7
MK # 3				

AZ Mark Station	G 309
Geodetic Azimuth	268 42 26
Grid Azimuth	269 56 19

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	AGRONOMY
Ref Mon # 3	040054

Comments

3-wire Levels ran from NGS G309 in Oct 05 by S5101 in Job 040440/012007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 310		NOAA	MILLER	82	RX0018

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	484,889.8791	
Easting (M)	228,630.9090	
Elevation (M)*	74.014	
Northing (SFT)	1,590,842.8783	
Easting (SFT)	750,099.9073	
Elevation (SFT)*	242.828	

Convergence Angle	-1	1	52.6816917
Scale Factor			0.999975911
Elevation Adjust. Factor			0.9999883849
Combined Adjust. Factor			0.9999642962

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	25	5.2734252
Longitude	93	50	33.4526892
Ellipsoid Height (M):	46.591		
Geoid Height (M):	-27.423		

Location Description

FROM THE JCT. OF U.S. HWY. 82 AND HWY. 245 IN EASTERN TEXARKANA, GO EAST ON HWY. 82 FOR 15.61 KM (9.70 MILES) TO THE STATION ON THE LEFT. THE STATION IS 17.3 METERS NORTH OF THE CENTERLINE OF HWY. 82, 14.7 METERS EAST OF TELEPHONE PEDESTAL NUMBER 212232, 4.8 METERS SOUTH OF A POWER POLE AND 2.4 METERS SOUTH OF A WITNESS POST AND FENCE.THE STATION MARK IS A DATUM POINT REACHED THROUGH A FIVE INCH LOGO CAP. A STAINLESS STEEL ROD IN SLEEVE SET TO A DEPTH OF 35.0 METERS ENCASED IN A PIPE FLUSH WITH THE GROUND. THE SLEEVE DEPTH IS RECORDED AT 7.6 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	460005
Geodetic Azimuth	263 26 47.45983
Grid Azimuth	264 28 40.21834

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE PORT
Ref Mon # 2	GARLAND
Ref Mon # 3	X 303

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G 8		NGS	White	NA	050189

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	101,535.8231	
Easting (M)	420,470.0010	
Elevation (M)*	90.147	
Northing (SFT)	333,122.1130	
Easting (SFT)	1,379,491.9949	
Elevation (SFT)*	295.757	

Convergence Angle	0	7	51.1862190
Scale Factor	0.999953019		
Elevation Adjust. Factor	0.9999858532		
Combined Adjust. Factor	0.9999388729		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	14	54.0354264
Longitude	91	46	30.2613420
Ellipsoid Height (M):	63.377		
Geoid Height (M):	-27.261		

Location Description

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	Hebeport, G 8
Ref Mon # 3	

Comments

3 Wire Levels were ran by crew S5112 in Dec. 09 from 2nd order NGS marks RV 114, RV 118, J 206, and H 206.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G308	4/9/2003	NOAA	LITTLE RIVER	32	030250

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	519,628.7212
Easting (M)	177,975.6650
Elevation (M)*	127.687
Northing (SFT)	1,704,815.2295
Easting (SFT)	583,908.4943
Elevation (SFT)*	418.920
Convergence Angle	-1 20 27.3758117
Scale Factor	0.999933264
Elevation Adjust. Factor	0.9999799621
Combined Adjust. Factor	0.9999132275

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 43 18.5862180
Longitude	94 23 45.0779676
Ellipsoid Height (M):	100.613
Geoid Height (M):	-27.074

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND HIGHWAY 32 WEST IN FORMAN, GO WEST ON HIGHWAY 32 FOR 0.20 MILES TO THE STATION ON THE RIGHT LOCATED AT THE NORTH WEST CORNER OF THE JUNCTION OF HIGHWAY 32 AND NORTH BELL STREET. THE STATION IS 10.4 METERS NORTH OF THE CENTERLINE OF HIGHWAY 32 AND 8.9 METERS WEST OF NORTH BELL STREET AND 0.50 METERS SOUTH OF A WITNESS POST. THIS IS AT THE SOUTHEAST CORNER OF THE U.S. POST OFFICE PARKING LOT IN FORMAN. THE STATION MARK IS A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS ROD INCASED IN A 5 INCH PVC PIPE STAMPED "G308 1986". ACCESS IS THROUGH A 5 INCH LOGO CAP. THIS IS A NGS BENCH MARK.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	171	0.80	2.6
MK # 2	U.S. POST OFFICE SIGN	300	7.50	24.6
MK # 3				

AZ Mark Station	G308A
Geodetic Azimuth	269 39 47
Grid Azimuth	271 00 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE,TEXARKANA
Ref Mon # 2	X303
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
G308A	4/9/2003	AHTD	LITTLE RIVER	32	030250

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	519,637.0262
Easting (M)	177,501.8130
Elevation (M)*	
Northing (SFT)	1,704,842.4768
Easting (SFT)	582,353.8648
Elevation (SFT)*	
Convergence Angle	-1 20 37.6790243
Scale Factor	0.999933267
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 43 18.4953972
Longitude	94 24 3.4867296
Ellipsoid Height (M):	99.511
Geoid Height (M):	-27.075

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 41 AND HIGHWAY 32 WEST, IN FORMAN, GO WEST ON HIGHWAY 32 FOR 0.50 MILES TO THE STATION ON THE LEFT. THE STATION IS 8.80 METERS SOUTH OF THE CENTER OF THE HIGHWAY, 7.10 METERS EAST OF A GRAVEL DRIVE, 24.5 METERS WEST OF 3rd STREET AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "G308A 2003" ON TOP OF A 1.22 METER IRON ROD DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WATER METER	85	16.70	54.8
MK # 2	24" WATER OAK	119	18.60	61.0
MK # 3				

AZ Mark Station	G308
Geodetic Azimuth	89 39 37
Grid Azimuth	91 00 14

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE,TEXARKANA
Ref Mon # 2	X303
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
GAYLOR	1/1/1971	CGS	CRAWFORD	71	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	159,562.0139	
Easting (M)	208,725.4910	
Elevation (M)*	636.879	
Northing (SFT)	523,496.3739	
Easting (SFT)	684,793.5484	
Elevation (SFT)*	2,089.494	

Convergence Angle	-1	13	50.8513910
Scale Factor			0.999940261
Elevation Adjust. Factor			0.9999000629
Combined Adjust. Factor			0.9998403299

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	45	11.0225916
Longitude	94	6	54.4664556
Ellipsoid Height (M):	608.680		
Geoid Height (M):	-28.280		

Location Description

THE STATION IS LOCATED ABOUT 14 KM (8.70 MI) NORTH-NORTHEAST OF MOUNTAINBURG, 4 KM (2.50 MI) SOUTH-SOUTHEAST OF WINSLOW, 0.15 KM (0.10 MI) NORTH OF A LOOKOUT TOWER, 0.08 KM (0.05 MI) SOUTH-SOUTHEAST OF STEEL ANTENNA TOWER ABOUT 100 M (328.1 FT) TALL, AT THE HIGHEST POINT IN THE VICINITY AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 74 IN WINSLOW, GO SOUTHERLY ON HIGHWAY 71 FOR 7.0 KM (4.35 MI) TO THE TOP OF THE MOUNTAIN AND THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 35 CM ROUND CONCRETE POST RECESSED 3 CM BELOW THE GROUND. IT IS 49.5 M (162.4 FT) SOUTHEAST OF THE CORNER OF A HOUSE, 26.4 M (86.6 FT) EAST-SOUTHEAST OF A POWERLINE POLE, 17.1 M (56.1 FT) NORTH OF THE NORTHEAST CORNER OF A 1 M (3.3 FT) SQUARE CONCRETE WELL CASING PROJECTING 1 M (3.3 FT) ABOVE GROUND, 12.5 M (41.0 FT) WEST OF AND ABOUT 1 M (3.3 FT) HIGHER THAN THE SOUTHBOUND LANES OF THE HIGHWAY CENTER AND 2.1 M (6.9 FT) WEST OF A FIBERGLASS WITNESS POST AT THE TOP OF A CUTBANK IN THE RIGHT-OF-WAY.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	LOCKE TOWER (FH0940)
Geodetic Azimuth	164 01 58.0
Grid Azimuth	165 15 48.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
GPS 47	1/1/1987	NGS	TIPTON / TN	N/A	NA

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	82.860	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	271.850	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999869967
Combined Adjust. Factor		#Type!

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) NORTHEAST OF COVINGTON, AT THE COVINGTON MUNICIPAL AIRPORT, BETWEEN THE RUNWAY AND PARALLEL TAXIWAY, AND ALONG THE SOUTH SIDE OF THE CONNECTOR TAXIWAY TO THE NORTH END OF THE RUNWAY. OWNERSHIP--CITY OF COVINGTON, ATTENTION JERRY HADLEY, PO BOX 768, COVINGTON TN 38019. AIRPORT MANAGER IS DAVE PEELER, 169 AIRPORT PARKWAY DRIVE, COVINGTON TN 38019, PHONE 901-476-1392. CALL AHEAD FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 51 AND STATE HIGHWAYS 54 AND 59 IN COVINGTON, GO NORTH ON HIGHWAY 51 FOR 1.29 KM (0.80 MI) TO THE JUNCTION OF STATE HIGHWAY 384. CONTINUE NORTH ON HIGHWAY 51 FOR 2.25 KM (1.40 MI) TO A PAVED ROAD RIGHT JUST BEFORE REACHING A GRAIN ELEVATOR ON THE RIGHT. TURN RIGHT, EAST ON COUNTY ROAD 8391 (ANTIOCH ROAD) FOR 0.82 KM (0.50 MI) TO A FORK. TURN RIGHT, SOUTH ON ANTIOCH ROAD FOR 0.14 KM (0.10 MI) TO A FORK. TURN LEFT, EAST ON ANTIOCH ROAD FOR 3.38 KM (2.10 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE RIGHT. TURN RIGHT, SOUTH ON THE ROAD FOR 0.32 KM (0.20 MI) TO THE BRICK TERMINAL BUILDING AND A PAVED ROAD RIGHT. TURN RIGHT, WEST ON THE

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	RUNWAY CENTER	E	37.50	123.0
MK # 2	THE NORTHEAST CORNER OF THE PAPI	NE	20.40	66.9
MK # 3	CENTER OF THE CONNECTOR TAXIWAY	S	13.70	44.9

AZ Mark Station	GPS 47 AZ MK (FE2779)
Geodetic Azimuth	189 52 11.0
Grid Azimuth	191 58 07.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
GRADY 1940	1/1/1940	USC&GS	LINCOLN	65	20137,R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	556,425.6490	
Easting (M)	428,419.2480	
Elevation (M)*	56.152	
Northing (SFT)	1,825,539.8168	
Easting (SFT)	1,405,572.1495	
Elevation (SFT)*	184.225	

Convergence Angle	0	10	20.4249166
Scale Factor			0.999918740
Elevation Adjust. Factor			0.9999911880
Combined Adjust. Factor			0.9999099287

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	4	35.9000076
Longitude	91	41	31.4739132
Ellipsoid Height:			29.424
Grid Northing (Meters)			556,425.8620
Grid Easting (Meters)			428,419.5593

Vertical Determined By:	1st Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	4	35.8931244	
Longitude	91	41	31.4860812	
Ellipsoid Height (M):			30.282	
Geoid Height (M):			-25.869	

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 0.72 KM (0.45 MI) TO THE STATION ON THE LEFT IN A VACANT LOT TO THE NORTHWEST OF THE JUNCTION OF U.S. HIGHWAY 65 AND GUM STREET. THE STATION IS 36.88 METERS NORTH OF THE CENTER OF U.S. HIGHWAY 65, 48.60 METERS WEST OF THE CENTER OF GUM STREET AND 0.35 METERS SOUTH OF A FIBERGLASS WITNESS POST. THE STATION MARK IS A STANARD DISK SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	12" CONCRETE CULVERT	195	21.00	68.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	GRADY AZ
Geodetic Azimuth	293 52 15.08467
Grid Azimuth	293 41 54.65559

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
GRADY AZ	7/19/1995	AHTD	LINCOLN	65	20137,R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	556,577.9070
Easting (M)	428,072.3690
Elevation (M)*	56.872
Northing (SFT)	1,826,039.3499
Easting (SFT)	1,404,434.0973
Elevation (SFT)*	186.588
Convergence Angle	0 10 12.8620704
Scale Factor	0.999918758
Elevation Adjust. Factor	0.9999910750
Combined Adjust. Factor	0.9999098337

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	4	40.8686520
Longitude	91	41	44.9986272
Ellipsoid Height (M):	31.004		
Geoid Height (M):	-25.867		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTH ON U.S. HIGHWAY 65 FOR 0.35 KM (0.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.0 METERS WEST OF THE CENTER OF U.S. HIGHWAY 65, 12.90 METERS EAST OF THE EASTERMOST RAIL OF THE RAILROAD TRACK AND 0.70 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "GRADY AZ 1995" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	34	4	40.8751500
Longitude	91	41	44.9865816
Ellipsoid Height:	30.157		
Grid Northing (Meters)	556,578.1081		
Grid Easting (Meters)	428,072.6772		

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	GRADY 1940
Geodetic Azimuth	113 52 07.51344
Grid Azimuth	113 41 54.65559

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

THE ELEVATION BY 3-WIRE USING STATION "GRADY 1940".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
GRASSY ROCK	5/11/1993	AHTD	CRAWFORD	n/a	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	146,857.1380	
Easting (M)	194,590.6110	
Elevation (M)*		
Northing (SFT)	481,813.7936	
Easting (SFT)	638,419.3629	
Elevation (SFT)*		

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	38	8.6677476
Longitude	94	16	5.3223240
Ellipsoid Height (M):	482.891		
Geoid Height (M):	-29.418		

Convergence Angle	-1	19	11.3939405
Scale Factor	0.999936338		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

TO REACH THE STATION FROM THE JCT. OF HWY-282 & HWY-64 ON THE EASTERN EDGE OF VAN BUREN, GO NORTHERLY ON HWY-282 FOR 10.54 KM. (6.55 MI.) TO THE JCT. OF HWY-60 NORTH AND HWY-282 TO RUDY, GO STRAIGHT ON HWY-60 FOR 3.86 KM. (2.40 MI.) TO THE END OF STATE MAINTANCE, CONTINUE AHEAD ON PAVED ROAD FOR 4.02 KM. (2.50 MI.) TO THE END OF THE ASPHALT. CONTINUE AHEAD ON GRAVEL ROAD FOR 1.609 KM. (1.0 MI.) TO THE JUNCTION OF THREE ROADS. "OLD HOBBTOWN WAY" TO THE LEFT, "OZARK ROAD" STRAIGHT AHEAD AND "OLD 88 ROAD" AT AN ANGLE TO THE RIGHT. GO RIGHT ON "OLD 88 RD." FOR 0.322 KM. (0.20 MI.) TO THE JCT. WITH "OLD 81 RD.", GO LEFT ON "OLD 88 RD." AND FOLLOW THIS MAIN GRAVEL ROAD FOR 5.150 KM. (3.20 MI.) TO A SMALL FRAME HOUSE ON THE LEFT AND "GRASSY 1935 " AZIMUTH MARK ON THE LEFT IN THE YARD NEAR THE GRAVEL ROAD. PASS THROUGH A METAL GATE JUST SOUTH OF THE AZ. MARK AND GO EASTERLY ACROSS THE PASTURE FOR 0.161 KM. (0.10 MI.) TO THE STATION MARK, A DRILL HOLE IN OUTCROPPING BEDROCK ABOUT 0.76 BY 0.91 METERS SQUARE. AND PROJECTS ABOUT 0.80 CM.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHWEST CORNER OF RUN DOWN BAR N	SSW	39.00	128.0
MK # 2	GAP IN A NORTH-SOUTH FENCELINE	EAST	51.00	167.3
MK # 3			0.00	0.0

AZ Mark Station	GRASSY
Geodetic Azimuth	280 37 58
Grid Azimuth	281 57 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	GRASSY
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

See Job R40116 File. THIS STATION WAS SET USING GRASSY 1935 AND IT'S AZIMUTH MARK. A RESECTION WAS DONE AND A COORDINATE WAS CALCULATED FROM EDM DISTANCES AND ANGLES.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 297	1/1/1984	NOAA	SEBASTIAN	255	R40117

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	113,721.5613	
Easting (M)	198,424.8496	
Elevation (M)*	118.913	
Northing (SFT)	373,101.4890	
Easting (SFT)	650,998.8607	
Elevation (SFT)*	390.134	

Convergence Angle	-1	17	25.4738292
Scale Factor	0.999945124		
Elevation Adjust. Factor	0.9999813390		
Combined Adjust. Factor	0.9999264640		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	20	16.5580080	
Longitude	94	13	3.2974572	
Ellipsoid Height (M):	88.983			
Geoid Height (M):	-29.930			

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN LAVACA, GO WEST ON STATE HIGHWAY 96 FOR 0.50 KM (0.30 MI) TO THE JUNCTION OF STATE HIGHWAY 255, GO RIGHT WEST ON STATE HIGHWAY 255 FOR 3.60 KM (2.25 MI) THE JUNCTION OF SEBASTIAN COUNTY ROAD 272 (HICKMAN BLUFF ROAD) AND THE STATION ON THE RIGHT. THE STATION IS 10.27 METERS NORTH OF THE CENTER OF STATE HIGHWAY 255, 9.54 METERS EAST OF THE CENTER OF COUNTY ROAD 272 AND 5.64 METERS NORTHEAST OF THE EAST END OF A CULVERT. THE STATION IS A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS STEEL ROD 2.44 METERS LONG AND IS ENCASED IN A 5 INCH PVC PIPE. ACCESS IS THROUGH A 5 INCH LOGO CAP STAMPED "H 297 1984". THE SHOT DISTANCE IS 582.317 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	H 297A
Geodetic Azimuth	91 37 24.919174
Grid Azimuth	92 54 50.352642

Area Reference Monuments (used for Processing)

Ref Mon # 1	240006
Ref Mon # 2	650007
Ref Mon # 3	GAYLOR

Comments

ELEVATION BASED ON NGS ELEVATION SHEET

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 297A	8/6/2000	AHTD	SEBASTIAN	255	R40117,C56008A

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	113,691.9601	
Easting (M)	199,006.3772	
Elevation (M)*	119.805	
Northing (SFT)	373,004.3724	
Easting (SFT)	652,906.7559	
Elevation (SFT)*	393.060	

Convergence Angle	-1	17	12.0612173
Scale Factor	0.999945135		
Elevation Adjust. Factor	0.9999811990		
Combined Adjust. Factor	0.9999263351		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	20	16.0220472
Longitude	94	12	40.2477372
Ellipsoid Height (M):	89.888		
Geoid Height (M):	-29.921		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN LAVACA, GO WEST ON STATE HIGHWAY 96 FOR 0.50 KM (0.30 MI) TO THE JUNCTION OF STATE HIGHWAY 255, GO RIGHT WEST ON STATE HIGHWAY 255 FOR 3.02 KM (1.88 MI) THE STATION ON THE LEFT. THE STATION IS 20.70 METERS WEST OF THE CENTER OF A FIELD ENTRANCE, 9.40 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 255 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "H 297A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 582.317 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK H 297.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	H 297
Geodetic Azimuth	271 37 38.25106
Grid Azimuth	272 54 50.35264

Area Reference Monuments (used for Processing)

Ref Mon # 1	240006
Ref Mon # 2	650007
Ref Mon # 3	GAYLOR

Comments

ELEVATION BASED ON THREE WIRE LEVELS FROM NGS PT H 297

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 314	1/2/1990	NOAA	CRITTENDEN	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	120,670.0613	
Easting (M)	556,085.8973	
Elevation (M)*	67.902	
Northing (SFT)	395,898.3594	
Easting (SFT)	1,824,425.1481	
Elevation (SFT)*	222.775	

Convergence Angle	1	0	0.1730589
Scale Factor			0.999940601
Elevation Adjust. Factor			0.9999893441
Combined Adjust. Factor			0.9999299457

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	24	31.4927964	
Longitude	90	16	53.0633208	
Ellipsoid Height (M):	40.449			
Geoid Height (M):	-27.453			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-55 AND U.S. HIGHWAY 63, LOCATED ABOUT 20.00 KM (12.40 MI) SOUTHEAST OF MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 1.93 KM (1.20 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 9.40 METERS WEST OF THE CENTER OF NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.30 METERS SOUTH OF THE CENTER OF A PAVED CROSSOVER, 2.52 METERS SOUTH-SOUTHEAST OF A U.S. ARMY CORPS OF ENGINEERS WITNESS POST SET AT A YIELD SIGN AND 0.50 METERS EAST-NORTHEAST OF AN AHTD WITNESS POST. THE STATION MARK IS STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGO CAP STAMPED "H 314 1990". THE SHOT DISTANCE IS 596.907 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	H 314A
Geodetic Azimuth	159 46 11.16372
Grid Azimuth	158 46 10.98036

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 314A	10/2/2000	AHTD	CRITTENDEN	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	120,113.6981	
Easting (M)	556,302.0347	
Elevation (M)*	67.745	
Northing (SFT)	394,073.0245	
Easting (SFT)	1,825,134.2588	
Elevation (SFT)*	222.260	

Convergence Angle	1	0	4.9330666
Scale Factor			0.999940873
Elevation Adjust. Factor			0.9999893687
Combined Adjust. Factor			0.9999302423

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	24	13.3193268	
Longitude	90	16	44.8831956	
Ellipsoid Height (M):	40.311			
Geoid Height (M):	-27.446			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-55 AND U.S. HIGHWAY 63, LOCATED ABOUT 20.00 KM (12.40 MI) SOUTHEAST OF MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 1.37 KM (0.85 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 34.90 METERS NORTH-NORTHWEST OF THE CENTER OF A PAVED CROSSOVER, 14.45 METERS EAST-NORTHEAST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 11.15 METERS WEST-SOUTHWEST OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS EAST-NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "H 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK H 314. THE SHOT DISTANCE IS 596.907 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	H 314
Geodetic Azimuth	339 46 15.90304
Grid Azimuth	338 46 10.98036

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 315	1/1/1990	NGS	CRAIGHEAD	91	101066

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	169,665.1168	0.0010
Easting (M)	510,518.4427	0.0010
Elevation (M)*	87.926	0.0001
Northing (SFT)	556,642.9707	
Easting (SFT)	1,674,925.9241	
Elevation (SFT)*	288.471	

Convergence Angle	0	42	43.3176107
Scale Factor	0.999947185		
Elevation Adjust. Factor	0.9999862017		
Combined Adjust. Factor	0.9999333875		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	51	23.2214112
Longitude	90	46	34.9107204
Ellipsoid Height (M):	60.105	0.0030	
Geoid Height (M):	-27.810	0.0030	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST SIDE OF JONESBORO, GO SOUTHERLY ON U.S. HIGHWAY 63 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT ALONG THE EAST RIGHT OF WAY FENCE. 20.5 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-63, 0.45 METERS WEST SOUTHWEST OF A METAL WITNESS POST SET IN THE FENCE LINE AND 0.35 METERS SOUTHWEST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH AND SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "H 315 1990" AND ENCASED IN CONCRETE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	242	14.45	47.4
MK # 2	1.60 METER OAK	9	30.20	99.1
MK # 3				

AZ Mark Station	H 315 A RESET
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARPG, ARWY

Comments

THIS IS AN NGS 1ST ORDER CLASS II BM

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
5 1990 SUPERCE		NOAA	CRAIGHEAD	63	R00059,100293,100417

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	169,665.1140
Easting (M)	510,518.4040
Elevation (M)*	87.926
Northing (SFT)	556,642.9615
Easting (SFT)	1,674,925.7971
Elevation (SFT)*	288.471
Convergence Angle	0 42 43.3167121
Scale Factor	0.999947185
Elevation Adjust. Factor	0.9999862017
Combined Adjust. Factor	0.9999333875

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)
Latitude	35 51 23.2306956
Longitude	90 46 34.9128516
Ellipsoid Height:	59.293
Grid Northing (Meters)	169,665.4022
Grid Easting (Meters)	510,518.3856

Vertical Determined By:	1st Order by NGS
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 51 23.2213356
Longitude	90 46 34.9122648
Ellipsoid Height (M):	60.234
Geoid Height (M):	-27.692

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST SIDE OF JONESBORO, GO SOUTHERLY ON U.S. HIGHWAY 63 FOR 0.24 KM. (0.15 MI.) TO THE STATION ON THE LEFT ALONG THE EAST RIGHT OF WAY FENCE. 20.5 METERS NORTHEAST OF THE CENTER OF THE NORTH BOUND LANE OF HWY-63, 0.45 METERS WEST SOUTHWEST OF A METAL WITNESS POST SET IN THE FENCE LINE AND 0.35 METERS SOUTHWEST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH AND SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "H 315 1990" AND ENCASED IN CONCRETE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	242	14.45	47.4
MK # 2	1.60 METER OAK	9	30.20	99.1
MK # 3	NONE			

AZ Mark Station	H 315 A
Geodetic Azimuth	147 40 26.39774
Grid Azimuth	146 57 43.09943

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	P 315
Ref Mon # 3	AHTD PAR1

Comments

THIS STATION IS AN NGS BENCH MARK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 315 A	6/6/1996	AHTD	CRAIGHEAD	63	100417,R00059

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	169,288.1459	
Easting (M)	510,763.5660	
Elevation (M)*	87.472	
Northing (SFT)	555,406.1920	
Easting (SFT)	1,675,730.1328	
Elevation (SFT)*	286.981	

Convergence Angle	0	42	48.8934233
Scale Factor			0.999946904
Elevation Adjust. Factor			0.9999862730
Combined Adjust. Factor			0.9999331777

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	51	10.9014768
Longitude	90	46	25.3290720
Ellipsoid Height:			58.841
Grid Northing (Meters)			169,288.4419
Grid Easting (Meters)			510,763.5511

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	51	10.8918684	
Longitude	90	46	25.3286256	
Ellipsoid Height (M):			59.782	
Geoid Height (M):			-27.690	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63, 63B AND STATE HIGHWAYS 91 NORTH AND 18 WEST ON THE NORTHWEST EDGE OF JONESBORO GO SOUTHERLY ON HWY-63 FOR 0.64 KM. (0.40 MI.) TO THE STATION ON THE LEFT IN THE MEDIAN. 9.89 METERS SOUTHWEST OF THE CENTER OF HWY-63 NORTH, 9.79 METERS NORTHEAST OF THE CENTER OF HWY-63 SOUTH AND 0.75 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "H 315 A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	"X" CUT IN TOP OF A CONCRETE POST	310	0.89	2.9
MK # 2	"X" CUT IN TOP OF A CONCRETE POST	313	5.97	19.6
MK # 3	"X" CUT IN TOP OF A CONCRETE POST	317	12.04	39.5

AZ Mark Station	H 315 1990
Geodetic Azimuth	327 40 32.01118
Grid Azimuth	326 57 43.09943

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	P 315
Ref Mon # 3	AHTD PAR1

Comments

ELEVATION BY 3-WIRE USING NGS BENCH MARK NUMBER "H 315 1990" ELEVATION = 87.926 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 315 A RESET	9/29/2022	ARDOT	CRAIGHEAD	91	101066

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	169,334.5280	0.0010
Easting (M)	510,762.6139	0.0010
Elevation (M)*	85.873	
Northing (SFT)	555,558.3639	
Easting (SFT)	1,675,727.0091	
Elevation (SFT)*	281.736	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	35	51	12.3970932	
Longitude	90	46	25.3435476	
Ellipsoid Height (M):	58.056			0.0030
Geoid Height (M):	-27.808			0.0030

Convergence Angle	0	42	48.8847402
Scale Factor	0.999946938		
Elevation Adjust. Factor	0.9999865239		
Combined Adjust. Factor	0.9999334626		

Location Description

TO REACH FROM THE JCT. OF HWY 226/WOODSPRINGS ROAD AND I-555 HEAD NW ON I-555 FOR 3.35 MILES TO THE STATION ON THE RIGHT. THE STATION IS 34.9FT EAST OF THE EP OF I-555, AND 52.5FT WEST OF A FENCE. THE STATION MARK IS A 5/8IN BY 4FT REBAR MARKED "H315A RESET 2022" DRIVEN 0.10 INCHES BELOW THE SURFACE.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BILLBOARD POST	226	27.50	90.2
MK # 2				
MK # 3				

AZ Mark Station	H 315
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARJB
Ref Mon # 3	ARPG, ARWY

Comments

ELEV. BASED ON DIGITAL LEVELS FROM NGS 1ST ORDER BM H 315 BY S5103 FOR JOB #101066 IN OCT. 2022.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 349	1/1/1983	NGS	TUNICA / MS	N/A	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	45,284.9419	0.0000
Easting (M)	542,319.8750	0.0000
Elevation (M)*	67.135	
Northing (SFT)	148,572.3469	
Easting (SFT)	1,779,261.1232	
Elevation (SFT)*	220.259	

Vertical Determined By:	1st Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	43	53.0040000	
Longitude	90	26	45.7800000	
Ellipsoid Height (M):	131.604			0.0000
Geoid Height (M):	-88.678			0.0000

Convergence Angle	0	54	15.2717401
Scale Factor	1.000045835		
Elevation Adjust. Factor	0.9999894644		
Combined Adjust. Factor	1.0000352990		

Location Description

THE STATION IS LOCATED ABOUT 7.6 KM (4.70 MI) NORTHWEST OF TUNICA, NEAR THE TOP OF THE MISSISSIPPI RIVER LEVEE AT MILEPOST 34/35, BETWEEN TWO METAL GUARD POSTS. OWNERSHIP--U.S. ARMY CORPS OF ENGINEERS. MAINTAINED BY YMD LEVEE BOARD, CLARKSDALE MS. HEAD OF OPERATIONS IS KEN WEILEND, PHONE 601-624-4397. NOTE--FOR ACCESS THROUGH LOCKED GATE, CONTACT MR. WEILEND 24-HOURS IN ADVANCE. HE WILL NOTIFY THE TUNICA FIELD OFFICE AND HAVE SOMEONE MEET THE OBSERVER AT THE LEVEE AND GATE. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 61 AND STATE HIGHWAY 4 WEST NEAR THE EAST EDGE OF TUNICA, GO NORTH FOR 1.7 KM (1.05 MI) ON HIGHWAY 61 TO THE JUNCTION OF MHOON LANDING PKY ON THE LEFT. TURN LEFT, WESTERLY FOR 7.89 KM (4.90 MI) ALONG THE PARKWAY TO THE TOP OF THE LEVEE. TURN LEFT, SOUTHWEST FOR 0.51 KM (0.30 MI) PASSING THROUGH THE GATE AND ALONG THE GRAVEL LEVEE ROAD TO MILEPOST 34/35 AND THE STATION. THE STATION IS THE TOP CENTER OF A STAINLESS STEEL DATUM POINT RECESSED 5 CM BELOW GROUND CRIMPED TO THE TOP OF A STAINLESS STEEL ROD DRIVEN TO A DEPTH OF 31.6 M (103.7 FT) ENCASED IN A 5-INCH PVC PIPE WITH NGS LOGO CAP SURROUNDED BY

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF LEVEE ROAD	SE	4.10	13.5
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H 41	1/1/1934	CGS	RANDOLPH	115	100877, 101140

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	218,654.0275	0.0020
Easting (M)	492,561.6562	0.0020
Elevation (M)*	112.758	
Northing (SFT)	717,367.4219	
Easting (SFT)	1,616,012.7004	
Elevation (SFT)*	369.940	

Convergence Angle	0	35	58.7600327
Scale Factor	1.000013815		
Elevation Adjust. Factor	0.9999823049		
Combined Adjust. Factor	0.9999961197		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	None			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	17	59.2215360	
Longitude	90	58	10.1473320	
Ellipsoid Height (M):	84.382			0.0000
Geoid Height (M):	-28.376			

Location Description

2.9 MILES NORTH ALONG STATE HIGHWAY 115 FROM THE COUNTY COURTHOUSE AT POCAHONTAS, RANDOLPH COUNTY, AT THE JUNCTION WITH THE ROAD LEADING NORTHWEST TO WARM SPRINGS, ABOUT 50 FEET NORTH OF THE NORTH END OF A PIPE CULVERT, 42.5 FEET EAST OF THE CENTERLINE OF THE HIGHWAY, AND 1.5 FEET LOWER THAN THE HIGHWAY. A STANDARD DISK, STAMPED H 41 1934 AND SET IN THE TOP OF A CONCRETE POST. MARK IS CEMENTED IN A ROCK LEDGE, AND NOT IN A CONCRETE POST AS DESCRIBED.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARBT

Comments

Elevation from NGS datasheet.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
H37 A	1/1/1984	NOS	WASHINGTON	265	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,311.3690	
Easting (M)	209,436.1260	
Elevation (M)*	407.380	
Northing (SFT)	680,154.0498	
Easting (SFT)	687,125.0234	
Elevation (SFT)*	1,336.546	

Convergence Angle	-1	13	58.1911086
Scale Factor			0.999990523
Elevation Adjust. Factor			0.9999360729
Combined Adjust. Factor			0.9999265965

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	11	0.4292772	
Longitude	94	7	7.0798404	
Ellipsoid Height (M):	376.360			
Geoid Height (M):	-28.020			

Location Description

THE STATION IS LOCATED ON THE NORTHEAST SIDE OF SPRINGDALE, AT THE SPRINGDALE MUNICIPAL AIRPORT, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF RUNWAY END 18 AND THE CONNECTOR TAXIWAY TO THE RUNWAY END, BETWEEN THE RUNWAY AND PARALLEL TAXIWAY. OWNERSHIP--CITY OF SPRINGDALE, AIRPORT MANAGER IS VERL THOMPSON, 802 AIRPORT ROAD, SPRINGDALE AR 72764, PHONE 501-751-4462. CALL IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAYS 71 (TO BE RENAMED INTERSTATE HIGHWAY 540 IN APPROXIMATELY 1996) AND 412 (EXIT 52) IN NORTHERN SPRINGDALE, GO EAST ON HIGHWAY 412 FOR 4.15 KM (2.55 MI) TO A PAVED CROSSROAD, U.S. HIGHWAY 71B. TURN RIGHT, SOUTH ON HIGHWAYS 71B AND 412 FOR 0.76 KM (0.45 MI) TO A PAVED CROSSROAD (WHERE HIGHWAY 412 TURNS EAST AND 71B CONTINUES SOUTH). TURN LEFT, EAST ON HIGHWAY 412 FOR 1.34 KM (0.85 MI) TO A PAVED CROSSROAD, POWELL STREET. TURN LEFT, NORTH ON POWELL STREET FOR 0.08 KM (0.05 MI) TO AIRPORT AVENUE ON THE RIGHT. TURN RIGHT, EAST ON THE ENTRANCE ROAD FOR 0.4 KM (0.25 MI) TO THE TERMINAL ON THE RIGHT. CONTINUE AHEAD, NORTH, THEN WEST FOR 0.08 KM (0.05 MI) TO A GATE IN THE PERIMETER FENCE ON

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST EDGE OF THE RUNWAY	W	30.20	99.1
MK # 2	CENTER OF THE PARALLEL TAXIWAY	E	19.00	62.3
MK # 3	CENTER OF A STEEL DRAIN	NW	7.70	25.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HC 65 + 19		S. ARMY C.O.	CRAIGHEAD	1	001853,100208,100672

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	163,155.6710
Easting (M)	520,236.4620
Elevation (M)*	78.805
Northing (SFT)	535,286.5639
Easting (SFT)	1,706,809.1257
Elevation (SFT)*	258.546
Convergence Angle	0 46 26.6472824
Scale Factor	0.999942784
Elevation Adjust. Factor	0.9999876331
Combined Adjust. Factor	0.9999304178

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	47.9370228
Longitude	90	40	11.1162432
Ellipsoid Height (M):	51.129		
Geoid Height (M):	-27.692		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND U.S. HIGHWAY 63, LOCATED ON THE SOUTH CENTRAL SIDE OF JONESBORO, GO SOUTH ON STATE HIGHWAY 1 FOR 1.13 KM (0.70 MI) TO THE STATION ON THE RIGHT SET JUST NORTH OF A BRIDGE. THE STATION IS 28.23 METERS SOUTH OF THE CENTER OF A CONCRETE DRIVE, 9.70 METERS NORTH OF A WITNESS POST AND 9.21 METERS WEST OF THE CENTER OF STATE HIGHWAY 1. THE STATION MARK IS U.S. ARMY C.O.E. DISK STAMPED "HC 65 + 19" SET IN CONCRETE.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF BRIDGE	175	9.68	31.8
MK # 2	CMP	340	23.03	75.6
MK # 3	NONE			

AZ Mark Station	160018
Geodetic Azimuth	182 20 15.50321
Grid Azimuth	181 33 48.85436

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEWSPORT
Ref Mon # 2	AHTD PAR 1
Ref Mon # 3	MEM 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HEBEPORT	1/1/1990	NGS	CLEBURNE	5	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	131,029.5400
Easting (M)	399,278.6000
Elevation (M)*	192.470
Northing (SFT)	429,886.0825
Easting (SFT)	1,309,966.5402
Elevation (SFT)*	631.462
Convergence Angle	0 0 16.6603213
Scale Factor	0.999936674
Elevation Adjust. Factor	0.9999697961
Combined Adjust. Factor	0.9999064720

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 30 51.8526360
Longitude	92 0 28.6309440
Ellipsoid Height (M):	164.990
Geoid Height (M):	-27.460

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ABOUT 42 KM (26.10 MI) NORTHWEST OF SEARCY, 3 KM (1.85 MI) NORTH-NORTHEAST OF HEBER SPRINGS, AT THE HEBER SPRINGS MUNICIPAL AIRPORT, NEAR THE NORTHEAST END OF THE AIRFIELD, BETWEEN THE RUNWAY AND PARALLEL TAXIWAY, IN THE WEST QUADRANT OF THE JUNCTION OF THE RUNWAY END AND THE CONNECTOR TAXIWAY TO THE RUNWAY END. OWNERSHIP--CITY OF HEBER SPRINGS, 2111 AIRPORT ROAD, HEBER SPRINGS AR 72543. AIRPORT MANAGER IS DAN WORLEY, PHONE 501-362-3294. CONTACT HIM FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 25 (BYPASS ROAD) AND 25B (HEBER SPRINGS ROAD) ABOUT 4 KM (2.50 MI) NORTHEAST OF HEBER SPRINGS, GO SOUTHWESTERLY ON HIGHWAY 25B FOR 1.45 KM (0.90 MI) TO A PAVED ROAD LEFT (COUNTY HIGHWAY 980/CHANELLE DRIVE). TURN LEFT, SOUTH ON THE ROAD FOR 0.38 KM (0.25 MI) TO A GATE AT THE APRON. PASS THROUGH THE GATE, THEN TURN RIGHT, SOUTHEAST ACROSS THE APRON AND ALONG A TAXIWAY FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY. TURN LEFT, NORTHEAST ALONG THE TAXIWAY FOR 0.42 KM (0.25 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET FLUSH IN THE TOP OF A 1.3 M (4.3 FT) X 2.2 M

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CONNECTOR TAXIWAY CENTER	SW	56.00	183.7
MK # 2	CENTER OF THE PARALLEL TAXIWAY	S-SE	34.90	114.5
MK # 3	RUNWAY CENTER	N-NW	27.10	88.9

AZ Mark Station	BEPORT AZ MK (FG1948)
Geodetic Azimuth	239 20 31.1
Grid Azimuth	239 20 47.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HILL	1/1/1978	DMA	PULASKI	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	648,631.3911	
Easting (M)	387,361.1480	
Elevation (M)*	116.300	
Northing (SFT)	2,128,051.4890	
Easting (SFT)	1,270,867.3664	
Elevation (SFT)*	381.561	

Convergence Angle	0	4	38.6406491	
Scale Factor	1.000034631			
Elevation Adjust. Factor	0.9999817491			
Combined Adjust. Factor	1.0000163794			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	54	29.4335388	
Longitude	92	8	17.8475712	
Ellipsoid Height (M):	89.210			
Geoid Height (M):	-27.050			

Location Description

THE STATION IS LOCATED ON A SMALL RIDGE ON LITTLE ROCK AIR FORCE BASE, NEAR JACKSONVILLE. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 67/167 AND VANDENBERG BOULEVARD, GO WEST AND NORTHWESTERLY ON VANDENBERG BOULEVARD FOR 1.8 MI (2.9 KM) TO A SIDE ROAD RIGHT, THOMAS AVENUE. TURN RIGHT AND GO NORTH ON THOMAS AVENUE FOR 0.9 MI (1.4 KM) TO A SIDE ROAD, THIRD STREET. TURN RIGHT AND GO EAST ON THIRD STREET FOR 0.15 MI (0.24 KM) TO A LARGE LONE OAK TREE AND THE STATION ON THE LEFT SIDE OF THE ROAD. THE STATION IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LARGE LONE OAK TREE	S-SW	84.50	277.2
MK # 2	SOUTH EDGE OF THIRD STREET	S	53.50	175.5
MK # 3	A LARGE ROCK FORMATION	E	1.00	3.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HINDSVILLE AZ	1/1/1971	USC&GS	MADISON	412	9951

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	204,515.2150	
Easting (M)	231,247.3670	
Elevation (M)*	436.578	
Northing (SFT)	670,980.3345	
Easting (SFT)	758,684.0699	
Elevation (SFT)*	1,432.340	

Convergence Angle	-1	5	29.1025643
Scale Factor			0.999986723
Elevation Adjust. Factor			0.9999314914
Combined Adjust. Factor			0.9999182153

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	9	44.0818992
Longitude	93	52	32.2056228
Ellipsoid Height (M):	407.863		
Geoid Height (M):	-28.545		

Location Description

FROM THE JCT. OF HWY. 412, HWY. 45 AND HWY. 295 IN THE CENTER OF HINDSVILLE, GO WEST ON HWY. 412 FOR 3.057 KM (1.90 MILES) TO THE STATION ON THE LEFT NEAR A FENCE CORNER. THE STATION IS 12.4 METERS SOUTH OF THE CENTERLINE OF HWY. 412, 3.23 METERS EAST OF THE CENTER OF COUNTY ROAD NO. 444 AND 0.74 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&GS CAP STAMPED "HINDSVILLE 1971" SET IN THE TOP OF A 12" CYLINDRICAL CONCRETE POST THAT PROJECTS 2 CENTIMETERS ABOVE THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	23	1.10	3.6
MK # 2	POWER POLE	172	11.06	36.3
MK # 3	2" PIPE CORNER FENCE POST	273	7.40	24.3

AZ Mark Station	HINDSVILLE NO.2
Geodetic Azimuth	105 35 43.4161
Grid Azimuth	106 41 12.7119

Area Reference Monuments (used for Processing)

Ref Mon # 1	PRICE
Ref Mon # 2	HUNTSVILLE
Ref Mon # 3	NONE

Comments

Cross Reference Job: 9948

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HINDSVILLE NO.2	1/1/1971	USC&GS	MADISON	412	9951

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	204,162.4269	
Easting (M)	232,424.2520	
Elevation (M)*	444.614	
Northing (SFT)	669,822.8956	
Easting (SFT)	762,545.2334	
Elevation (SFT)*	1,458.704	

Convergence Angle	-1	5	1.5521141
Scale Factor			0.999986201
Elevation Adjust. Factor			0.9999302304
Combined Adjust. Factor			0.9999164324

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	9	33.3628560
Longitude	93	51	44.8598736
Ellipsoid Height (M):	415.913		
Geoid Height (M):	-28.544		

Location Description

FROM THE JCT. OF HWY. 412, HWY. 45 AND HWY. 295 IN THE CENTER OF HINDSVILLE, GO NORTHERLY ON HWY. 412 FOR 1.77 KM (1.10 MILES) TO THE STATION ON THE LEFT. THE STATION IS 12.09 METERS WEST OF THE CENTERLINE OF HWY. 412 AND 0.51 METERS EAST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD USC&GS CAP STAMPED "HINDSVILLE NO 2 1971" SET IN THE TOP OF A 12" CYLINDRICAL CONCRETE POST AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	12" WALNUT TREE	185	18.60	61.0
MK # 2	8" CROSS BRACE POST	359	20.70	67.9
MK # 3	NONE			

AZ Mark Station	HINDSVILLE AZ. MK.
Geodetic Azimuth	285 36 11.35265
Grid Azimuth	286 41 12.7119

Area Reference Monuments (used for Processing)

Ref Mon # 1	PRICE
Ref Mon # 2	HUNTSVILLE
Ref Mon # 3	NONE

Comments

Cross Reference Job: 9948

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HOPE 2	1/2/1997	AHTD	HEMPSTEAD	29	030238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	515,514.5227	
Easting (M)	251,417.3333	
Elevation (M)*	106.954	
Northing (SFT)	1,691,317.2299	
Easting (SFT)	824,858.3677	
Elevation (SFT)*	350.899	

Convergence Angle	0	53	49.4915672
Scale Factor	0.999935638		
Elevation Adjust. Factor	0.9999832157		
Combined Adjust. Factor	0.9999188548		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	41	51.6232860
Longitude	93	36	10.1363328
Ellipsoid Height (M):	80.020		
Geoid Height (M):	-26.877		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAY 29 (EXIT 31), LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 FOR 0.89 KM (0.55 MI) TO THE JUNCTION OF COUNTY ROAD 221 AND THE STATION ON THE RIGHT. THE STATION IS 27. 34 METERS NORTHEAST OF THE CENTER OF STATE HIGHWAY 29, 24.17 METERS EAST OF A UTILITY POLE, 13.32 METERS EAST-SOUTHEAST OF A UTILITY POLE AND 11.58 METERS SOUTH OF THE CENTER OF COUNTY ROAD 221. THE STATION MARK IS A PINCH HOLE ON THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH AN AHTD LOGO CAP STAMPED "AHTD HOPE2 1997. THE SHOT DISTANCE IS 248.939 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	AHTD HOPE 1
Geodetic Azimuth	126 28 55.33498
Grid Azimuth	127 22 44.80756

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	HOPE 2
Ref Mon # 3	HOPEPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HOPE 1	1/2/1997	AHTD	HEMPSTEAD	29	030238

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	515,363.5564	0.0000
Easting (M)	251,614.8360	0.0000
Elevation (M)*	108.036	
Northing (SFT)	1,690,821.9346	
Easting (SFT)	825,506.3411	
Elevation (SFT)*	354.449	

Convergence Angle	0	53	45.1481812
Scale Factor	0.999935774		
Elevation Adjust. Factor	0.9999830459		
Combined Adjust. Factor	0.9999188210		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	33	41	46.8240000	
Longitude	93	36	2.3760000	
Ellipsoid Height (M):	266.099		0.0000	
Geoid Height (M):	-88.511		0.0000	

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-30 AND STATE HIGHWAY 29 (EXIT 31), LOCATED ON THE NORTH SIDE OF HOPE, GO NORTH ON STATE HIGHWAY 29 0.64 KM (0.40 MI) TO THE JUNCTION OF THE SOUTH ENTRANCE TO AHTD DISTRIST 3 ON THE RIGHT. TURN RIGHT, EAST ON A PAVED ROAD FOR 0.04 KM (0.02 MI) TO A PAVED ROAD LEFT. TURN LEFT, NORTH PASSING THROUGH A GATE IN A BRICK FENCE FOR 0.04 KM (0.02 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.59 METERS NORTH OF THE NORTH WALL OF THE RESIDENT ENGINEER BRICK BUIKLDING, 4.38 METERS SOUTH OF THE SOUTH EDGE OF A CONCRETE SIDEWALK 3.39 METERS EAST OF A BRICK FENCE AND FIBERGLASS WITNESS POST. THE STATION MARK IS A PUNCH HOLE ON TOP OF A STAINLESS STEEL ROD ENCASED IN A 6-INCH PVC PIPE WITH AN AHTD LOGO CAP STAMPED "AHTD HOPE1 1997". THE SHOT DISTANCE IS 248.939 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	AHTD HOPE 2
Geodetic Azimuth	306 28 59.64699
Grid Azimuth	307 22 44.80756

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPE 1
Ref Mon # 2	HOPE 2
Ref Mon # 3	HOPEPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
HOPEPORT	1/1/1990	NGS	HEMPSTEAD	278	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	518,541.1701	
Easting (M)	246,593.2070	
Elevation (M)*	106.270	
Northing (SFT)	1,701,247.1556	
Easting (SFT)	809,031.2133	
Elevation (SFT)*	348.654	

Convergence Angle	0	55	35.3911854
Scale Factor	0.999933035		
Elevation Adjust. Factor	0.9999833230		
Combined Adjust. Factor	0.9999163592		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	43	27.3603900
Longitude	93	39	19.3473036
Ellipsoid Height (M):	70.270		
Geoid Height (M):	-26.960		

Location Description

THE STATION IS LOCATED ABOUT 7 KM (4.35 MI) NORTHWEST OF HOPE, AT THE HOPE MUNICIPAL AIRPORT, ADJACENT TO THE NORTH END OF THE APRON, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF RUNWAY 16-34 AND THE CONNECTOR TAXIWAY FOR RUNWAY END 16. OWNERSHIP--CITY OF HOPE, CITY HALL, HOPE AR 71801. AIRPORT MANAGER IS DEAN MEDLEN, 153 AIRPORT ROAD, PHONE 501-777-3444 OR 777-8918. CALL IN ADVANCE FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 30 AND STATE HIGHWAY 4 ON THE NORTHWEST SIDE OF HOPE, GO NORTHWEST ON HIGHWAY 4 FOR 6.3 KM (3.90 MI) TO A PAVED CROSSROAD. TURN LEFT, SOUTHWEST ON THE ENTRANCE ROAD FOR 0.18 KM (0.10 MI) TO THE T-JUNCTION OF A PAVED ROAD RIGHT AND A GRAVEL ROAD LEFT. TURN RIGHT, NORTH-NORTHWEST ON THE PAVED ROAD FOR 0.24 KM (0.15 MI) TO A GATE ON THE NORTHEAST SIDE OF A PARKING LOT AND HANGAR (AIRPORT OFFICE IS LOCATED IN THE SOUTHWEST CORNER OF THE HANGAR). CONTINUE AHEAD, NORTH-NORTHWEST, PASSING THROUGH THE GATE, THEN WEST-SOUTHWEST AROUND THE HANGAR FOR 0.08 KM (0.05 MI) TO THE APRON AND A CONNECTOR TAXIWAY ON THE RIGHT. TURN RIGHT, NORTHWEST ACROSS

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	THE RUNWAY CENTER	E-NE	53.60	175.9
MK # 2	THE TAXIWAY CENTER	SW	27.30	89.6
MK # 3	TAXIWAY LIGHT AT THE JUNCTION OF THE RUNWAY	E	32.40	106.3

AZ Mark Station	PEPORT AZ MK (DL1593)
Geodetic Azimuth	167 07 09.0
Grid Azimuth	168 02 44.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
J 112	1/1/1954	CGS	JEFFERSON	11	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	566,528.5349
Easting (M)	441,475.0940
Elevation (M)*	54.865
Northing (SFT)	1,858,685.7016
Easting (SFT)	1,448,406.2042
Elevation (SFT)*	180.003
Convergence Angle	0 15 6.4152025
Scale Factor	0.999921148
Elevation Adjust. Factor	0.9999913900
Combined Adjust. Factor	0.9999125386

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 10 2.2328112
Longitude	91 33 0.5069052
Ellipsoid Height (M):	28.720
Geoid Height (M):	-26.070

Location Description

THE STATION IS LOCATED ABOUT 24 KM (14.90 MI) SOUTHWEST OF DEWITT, 17 KM (10.55 MI) WEST-NORTHWEST OF GILLETT, 1.8 KM (1.10 MI) NORTHEAST OF REYDELL, IN GRASS ADJACENT TO TWO CULTIVATED FIELDS AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 88 WEST AND 11 EAST, AND A GRAVEL ROAD LEADING SOUTH IN THE SMALL TOWN OF REYDELL, GO NORTHEAST ON HIGHWAY 11 FOR 1.82 KM (1.15 MI) TO THE STATION ON THE RIGHT, NEAR THE START OF A CURVE IN THE HIGHWAY. THE STATION IS SET IN THE TOP OF A 30 CM ROUND CONCRETE POST PROJECTING 20 CM ABOVE THE GROUND. IT IS 14.7 M (48.2 FT) SOUTHEAST OF AND ABOUT 1.5 M (4.9 FT) LOWER THAN THE HIGHWAY CENTER, 0.4 M (1.3 FT) NORTHEAST OF A STEEL PIPE PROJECTING 1 M (3.3 FT) ABOVE GROUND AND 0.95 M (3.12 FT) WEST-NORTHWEST OF A UTILITY BRACE POLE AND A FIBERGLASS WITNESS POST.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
J 12	1/1/1932	CGS	ASHLEY	82	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	452,761.6330	
Easting (M)	395,656.0100	
Elevation (M)*	35.335	
Northing (SFT)	1,485,435.4576	
Easting (SFT)	1,298,081.4261	
Elevation (SFT)*	115.928	

Convergence Angle	0	1	33.8053629
Scale Factor	1.000038695		
Elevation Adjust. Factor	0.9999944548		
Combined Adjust. Factor	1.0000331496		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	8	32.4611700
Longitude	92	2	47.6021508
Ellipsoid Height (M):	9.350		
Geoid Height (M):	-25.940		

Location Description

THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) WEST OF WEST CROSSETT, ALONG THE NORTH SIDE OF THE HIGHWAY, ABOUT 0.08 KM (0.05 MI) EAST OF A CURVE TO THE NORTH IN THE HIGHWAY AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 169 (HANCOCK ROAD) AT THE CITY LIMITS OF CROSSETT AND WEST CROSSETT, GO NORTHWEST, THEN WEST ON HIGHWAY 82 FOR 6.28 KM (3.90 MI) TO THE JUNCTION OF RAMSOUR ROAD ON THE LEFT AND THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 25 CM SQUARE CONCRETE POST PROJECTING 5 CM ABOVE GROUND. IT IS 41.8 M (137.1 FT) WEST OF THE CENTER OF A GRAVEL DRIVE TO A HOUSE, 14.8 M (48.6 FT) NORTH OF AND ABOUT LEVEL WITH THE HIGHWAY CENTER, 6.5 M (21.3 FT) WEST OF THE EXTENDED CENTER OF RAMSOUR ROAD, 4.0 M (13.1 FT) EAST-NORTHEAST OF A STEEL TELEPHONE CABLE JUNCTION BOX NUMBER 9A+B 47, 3.0 M (9.8 FT) EAST-NORTHEAST OF A POWER POLE WITH A STEEL JUNCTION BOX, 0.9 M (3.0 FT) WEST-NORTHWEST OF THE NORTH 1 OF 2 POWER POLES THAT ARE BRACED AT THE TOP AND 0.3 M (1.0 FT) NORTH OF A STEEL WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
J 192 X	1/1/1959	AHTD	CLARK	CR 9	070344

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	548,147.8241	
Easting (M)	298,556.3480	
Elevation (M)*	59.464	
Northing (SFT)	1,798,381.6529	
Easting (SFT)	979,513.6184	
Elevation (SFT)*	195.090	

Convergence Angle	0	36	52.6149569
Scale Factor	0.999918676		
Elevation Adjust. Factor	0.9999906683		
Combined Adjust. Factor	0.9999093451		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	59	50.9420796
Longitude	93	5	53.2817124
Ellipsoid Height (M):	32.851		
Geoid Height (M):	-26.612		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 67 AND STATE HIGHWAY 53, NORTH OF GURDON, GO NORTH ON 67 FOR 5.0 MILES TO CURTIS ROAD ON THE RIGHT, TURN RIGHT AND GO 1.0 MILES TO THE MARK ON THE LEFT, 28 FEET NORTH OF THE CENTERLINE OF CURTIS ROAD (CR 9), WEST 37 FEET FROM C/L HUDMAN ROAD, AND WEST 117.5 FROM C/L RAIL ROAD TRACKS. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED "J 192 X 1959" SET IN THE TOP OF A 1.6 FOOT X 1.6 FOOT CONCRETE BASE OF AN OLD SIGN THAT PROJECTS ABOUT 2 FOOT ABOVE THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	185	21.09	69.2
MK # 2				
MK # 3				

AZ Mark Station	100020
Geodetic Azimuth	88 29 01
Grid Azimuth	89 05 53

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	G 23, G23A

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
J 26	1/2/1932	USC&GS	BENTON	62	090065,090096

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	240,803.4161	
Easting (M)	226,777.5780	
Elevation (M)*	474.689	
Northing (SFT)	790,035.8743	
Easting (SFT)	744,019.4372	
Elevation (SFT)*	1,557.375	

Convergence Angle	-1	7	29.7337721
Scale Factor	1.000060393		
Elevation Adjust. Factor	0.9999255114		
Combined Adjust. Factor	0.9999858999		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	29	18.3181272
Longitude	93	55	59.5116696
Ellipsoid Height (M):	446.499		
Geoid Height (M):	-28.190		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62, STATE HIGHWAY 37 AND OLD HIGHWAY ROAD, LOCATED IN GATEWAY, GO SOUTH ON OLD HIGHWAY ROAD FOR 0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.3 METERS SOUTHEAST OF THE SOUTHEAST RAIL, 6.8 METERS NORTHWEST OF THE CENTER OF OLD HIGHWAY ROAD AND 0.9 METERS SOUTH OF A METAL USC&GS WITNESS POST. THE STATION MARK IS USC&GS BENCH MARK DISK STAMPED "J 26 1932 1556.837" SET IN TOP OF A SQUARE CONCRETE MONUMENT THAT PROJECTS 0.1 METERS ABOUE THE GROUND. THE SHOT DISTANCE IS 911.062 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	J 26A
Geodetic Azimuth	107 32 40.67289
Grid Azimuth	108 40 10.62912

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS ARP
Ref Mon # 2	SALLISAW 1 CORS ARP
Ref Mon # 3	NEODESHA CORS ARP

Comments

Elevation by NGS point J 26

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
J 26A	9/28/1999	AHTD	BENTON	62	090065,090096

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	240,511.7772
Easting (M)	227,640.6960
Elevation (M)*	
Northing (SFT)	789,079.0557
Easting (SFT)	746,851.1835
Elevation (SFT)*	

Convergence Angle	-1	7	9.4270709
Scale Factor	1.000059711		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	29	9.4075440
Longitude	93	55	24.6143820
Ellipsoid Height (M):			
Geoid Height (M):	-28.192		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 37, LOCATED IN GATEWAY, GO SOUTHEAST ON U.S. HIGHWAY 62 FOR 0.80 KM (0.50 MI) TO THE STATION ON THE LEFT. THE STATION IS 10.50 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 62 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "J 26A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 911.062 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	121	23.55	77.3
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	J 26
Geodetic Azimuth	287 33 01.42431
Grid Azimuth	288 40 10.62912

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS ARP
Ref Mon # 2	SALLISAW 1 CORS ARP
Ref Mon # 3	NEODESHA CORS ARP

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
)NES TRI STATIC	1/1/1953	AHTD	LEE	1	110229

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	42,794.7069	
Easting (M)	512,908.8320	
Elevation (M)*	69.881	
Northing (SFT)	140,402.3009	
Easting (SFT)	1,682,768.3930	
Elevation (SFT)*	229.268	

Convergence Angle	0	43	1.9216705
Scale Factor			1.000050697
Elevation Adjust. Factor			0.9999890335
Combined Adjust. Factor			1.0000397300

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	42	45.7083540	
Longitude	90	46	2.9394408	
Ellipsoid Height (M):	43.105			
Geoid Height (M):	-26.736			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 1 AND STATE HIGHWAY 243, LOCATED ABOUT 4.0 MILES SOUTH OF MARIANNA, GO SOUTH ON STATE HIGHWAY 1 FOR 0.23 MILES TO THE STATION ON THE RIGHT. THE STATION IS 15.50 METERS WEST OF THE CENTER OF STATE HIGHWAY 1 AND 16.80 METERS NORTH OF A CARSONITE WITNESS POST. THE STATION MARK IS A STANDARD CGS STATION MARK DISK STAMPED "JONES 1953 1970" SET IN THE TOP OF A 30-CM ROUND CONCRETE POST THAT IS RECESSED 30-CM BELOW THE GROUND. THIS STATION WAS UPDATED TO HARN IN APRIL 2002.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	182	17.35	56.9
MK # 2	CORRIGATED METAL PIPE	160	12.60	41.3
MK # 3				

AZ Mark Station	390008
Geodetic Azimuth	176 58 23
Grid Azimuth	176 15 21

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	H 349
Ref Mon # 3	390006

Comments

ELEVATION BY 3 WIRE

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
K 124	1/1/1957	CGS	JEFFERSON	425	020197

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	567,777.4040	
Easting (M)	405,719.8730	
Elevation (M)*	62.170	
Northing (SFT)	1,862,783.0330	
Easting (SFT)	1,331,099.2833	
Elevation (SFT)*	203.969	

Convergence Angle	0	2	5.0219889
Scale Factor			0.999921656
Elevation Adjust. Factor			0.9999902436
Combined Adjust. Factor			0.9999119004

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	10	45.6685680
Longitude	91	56	16.6230672
Ellipsoid Height (M):	36.170		
Geoid Height (M):	-25.890		

Location Description

THE STATION IS LOCATED ABOUT 6 KM (3.70 MI) SOUTHEAST OF PINE BLUFF, AT GRIDER FIELD AIRPORT, ALONG THE WEST EDGE OF THE AIRFIELD, ADJACENT TO THE AIRPORT OFFICE AND TERMINAL AND NEAR THE EAST SIDE OF THE PARKING LOT FOR THE OFFICE. OWNERSHIP--CITY OF PINE BLUFF, GRIDER FIELD, 709 HANGAR ROW, PINE BLUFF AR 71601. AIRPORT MANAGER IS MIKE WEST, PHONE 501-534-4131. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 65, 425 SOUTH AND 81 NORTH (ABOUT 9 KM (5.60 MI) SOUTHEAST OF PINE BLUFF, GO WEST-NORTHWEST ON HIGHWAY 65 FOR 2.82 KM (1.75 MI) TO A PAVED ROAD LEFT AT A CURVE IN THE HIGHWAY (COUNTY HIGHWAY 980/GRIDER FIELD ROAD). TURN LEFT, SOUTHERLY ON THE ROAD FOR 2.09 KM (1.30 MI) TO THE PAVED AIRPORT ENTRANCE ON THE LEFT (NORTH AIRPORT DRIVE). TURN LEFT, EAST ON THE ROAD FOR 0.32 KM (0.20 MI) TO A PAVED T-JUNCTION (HANGAR ROW). TURN RIGHT, SOUTH ON THE ROAD FOR 0.16 KM (0.10 MI) TO A PAVED PARKING LOT ON THE LEFT. TURN LEFT, EAST THROUGH THE PARKING LOT FOR 0.08 KM (0.05 MI) TO A GATE AT THE APRON, THE AIRPORT OFFICE ON THE RIGHT AND THE STATION ON THE LEFT. THE STATION IS SET FLUSH IN THE TOP OF THE WEST SIDE OF THE CONCRETE APRON WHICH HAS A 2 INCH

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
K 143	2/23/1994	AHTD	MADISON	N/A	R90018

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)
Northing (M)	165,250.2359
Easting (M)	224,078.0250
Elevation (M)*	699.901
Northing (SFT)	542,158.4823
Easting (SFT)	735,162.6537
Elevation (SFT)*	2,296.259

Convergence Angle	-1	7	57.9131300
Scale Factor			0.999943480
Elevation Adjust. Factor			0.9998901748
Combined Adjust. Factor			0.9998336610

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	48	25.8260148
Longitude	93	56	47.9382036
Ellipsoid Height (M):	671.200		
Geoid Height (M):	-28.701		

Location Description

FROM THE JCT. OF HWY. 16 AND HWY. 295 IN THE VILLAGE OF CROSSES WHICH IS ABOUT 35.4 KM BY ROAD SOUTHEAST OF FAYETTEVILLE, GO SOUTH ON HWY. 295 FOR 8.85 KM (5.50 MILES) TO A "T" JCT. WITH CO. RD. NO. 1 ON THE LEFT AND CO. RD. NO. 126 ON THE RIGHT, GO LEFT (SOUTH) ON CO. RD. NO. 1 FOR 1.20 KM (0.75 MILES) TO A 90 DEGREE CURVE LEFT AND THE STATION ON THE RIGHT IN A EAST-WEST FENCE LINE. THE STATION IS 4.0 METERS NORTHWEST OF THE CENTER OF A DRIVEWAY, 2.30 METERS WEST OF THE CENTER OF CO. RD. NO. 1 AND 0.50 METERS EAST OF A METAL WITNESS POST AND 0.65 METERS WEST OF A CARSONITE WITNESS POST. THE STATION IS ON THE PROPERTY OF MR. LLOYD GABBARD. THE STATION MARK IS A STANDARD DISK STAMPED "K 143 1935" SET IN THE TOP OF A CONCRETE POST AND PROJECTS 0.30 METERS ABOVE THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF TELEPHONE BOX	35	8.70	28.5
MK # 2	POWER POLE	58	6.15	20.2
MK # 3	NONE			

AZ Mark Station	440001
Geodetic Azimuth	356 58 56.37675
Grid Azimuth	358 06 54.28886

Area Reference Monuments (used for Processing)

Ref Mon # 1	DENNIS
Ref Mon # 2	NELSON
Ref Mon # 3	BIEHL

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
K 183	10/19/2004	NGS	CRAIGHEAD	CR202	100611, 100412

Zone	Zone Code
Arkansas North	301

Horizontal Datum	NAD 83 (1997)	
Northing (M)	160,889.4599	
Easting (M)	506,953.2620	
Elevation (M)*	76.684	
Northing (SFT)	527,851.5030	
Easting (SFT)	1,663,229.1604	
Elevation (SFT)*	251.587	

Convergence Angle	0	41	18.1911078
Scale Factor	0.999941619		
Elevation Adjust. Factor	0.9999879659		
Combined Adjust. Factor	0.9999295856		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	46	39.9107244
Longitude	90	49	1.2015444
Ellipsoid Height (M):	49.053		
Geoid Height (M):	-27.631		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 226 SOUTH AND STATE HIGHWAY 49 SOUTH, WEST OF VALLEY VIEW, GO SOUTH ON HIGHWAY 49 1.7 MILES TO COUNTY ROAD 202 AND TURN RIGHT AND GO ACROSS THE RAILROAD TRACKS TO THE STATION ON THE LEFT, SOUTH OF THE CENTERLINE OF THE COUNTY ROAD 35.70 METERS AND EAST OF A WITNESS POST 0.30 METERS. THE STATION MARK IS A DISK SET IN THE TOP OF A CONCRETE MONUMENT.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	110	2.20	7.2
MK # 2	C/L RAILROAD	110	7.55	24.8
MK # 3	SOUTHWEST CORNER SIGNAL BOX	28	30.20	99.1

AZ Mark Station	160026
Geodetic Azimuth	16 06 10
Grid Azimuth	15 24 52

Area Reference Monuments (used for Processing)

Ref Mon # 1	BUTLER
Ref Mon # 2	MEM2
Ref Mon # 3	BLMM

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
K 206	5/15/1905	CGS	WHITE	36	50280

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	102,257.2176	0.0000
Easting (M)	413,113.0604	0.0000
Elevation (M)*	89.671	0.0000
Northing (SFT)	335,488.8881	
Easting (SFT)	1,355,355.0990	
Elevation (SFT)*	294.196	

Convergence Angle	0	5	1.8659917
Scale Factor			0.999952352
Elevation Adjust. Factor			0.9999859279
Combined Adjust. Factor			0.9999382806

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	15	17.8920000	
Longitude	91	51	21.2400000	
Ellipsoid Height (M):	204.173			0.0000
Geoid Height (M):	-89.993			0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 36 AND STATE HIGHWAY 320 WEST, EAST OF SEARCY, GO EAST ON HIGHWAY 36 FOR 0.45 MILES TO THE MARK ON THELEFT, 68.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY . THE MARK IS A STANDARD 3 INCH BRASS CAP STAMPED "K 206 1962" SET IN THE TOP OF A 11 INCH SQUARE CONCRETE MONUMENT PROJECTING 5 INCHES ABOVE THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	N. END OF 24" CMP CULVERT	200	32.70	107.3
MK # 2	FENCE CORNER	3	14.20	46.6
MK # 3	CENTER OF CATTLE GUARD	72	26.00	85.3

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	P777

Comments

Lat Long & Elevation taken from NGS OPUS Projects

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
K 289		NOAA	JEFFERSON	65	R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	564,955.7200	
Easting (M)	418,548.7010	
Elevation (M)*	58.889	
Northing (SFT)	1,853,525.5580	
Easting (SFT)	1,373,188.5299	
Elevation (SFT)*	193.205	

Convergence Angle	0	6	45.3061285
Scale Factor	0.999920630		
Elevation Adjust. Factor	0.9999907585		
Combined Adjust. Factor	0.9999113892		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	9	13.5504936
Longitude	91	47	55.8390696
Ellipsoid Height (M):	32.206		
Geoid Height (M):	-26.683		

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO NORTH ON HWY. 65 FOR 0.644 KM (0.40 MILES) TO THE STATION ON THE LEFT IN FRONT OF THE "LINWOOD BAPTIST CHURCH". THE STATION IS 24.8 METERS SOUTH OF THE CENTER OF HWY. 65, 29.6 METERS WEST OF THE EASTERN MOST DRIVEWAY TO THE CHURCH AND 1.60 METERS EAST OF THE EAST FACE OF A BRICK PLANTER SURROUNDING THE CHURCH SIGN. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN FLUSH WITH THE GROUND AND CAN BE REACHED THROUGH A 5" LOGO CAP.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS REGULATOR VALVE	30	7.20	23.6
MK # 2	NORTH EAST CORNER OF THE CHURCH	170	17.85	58.6
MK # 3	18" CONCRETE PIPE	305	20.40	66.9

AZ Mark Station	K 289 AZ 1995
Geodetic Azimuth	24 20 31.75680
Grid Azimuth	24 13 46.45573

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments

THIS STATION IS A NOAA BENCH MARK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
K 289 AZ	7/19/1995	AHTD	JEFFERSON	N/A	R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	565,285.0960	
Easting (M)	418,696.9320	
Elevation (M)*	60.026	
Northing (SFT)	1,854,606.1858	
Easting (SFT)	1,373,674.8511	
Elevation (SFT)*	196.935	

Convergence Angle	0	6	48.5593602
Scale Factor			0.999920739
Elevation Adjust. Factor			0.9999905801
Combined Adjust. Factor			0.9999113198

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	9	24.2314992	
Longitude	91	47	50.0265168	
Ellipsoid Height (M):	33.330			
Geoid Height (M):	-26.696			

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO NORTH ON HWY. 65 FOR 0.434 KM (0.27 MILES) TO A GRAVEL FIELD ROAD RIGHT AND HWY. 199 TO THE LEFT, GO RIGHT AND NORTH ON THE GRAVEL FIELD ROAD FOR 0.354 KM (0.22 MILES) TO THE STATION ON THE LEFT IN THE SOUTHEAST CORNER OF THE "CHERRY HILL CEMETERY". THE STATION IS 5.70 METERS WEST OF THE CENTER OF THE GRAVEL FIELD ROAD AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "K 289 AZ 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	K 289 1984
Geodetic Azimuth	204 20 35.02020
Grid Azimuth	204 13 46.45573

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments

THE ELEVATION ON THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION " K 289 1984".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
K 324	11/6/2008	AHTD	Greene	NA	100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	190,511.7689
Easting (M)	530,116.8480
Elevation (M)*	110.014
Northing (SFT)	625,037.3618
Easting (SFT)	1,739,225.0255
Elevation (SFT)*	360.937
Convergence Angle	0 50 24.9047573
Scale Factor	0.999967764
Elevation Adjust. Factor	0.9999827356
Combined Adjust. Factor	0.9999505001

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 2 30.9386472
Longitude	90 33 21.6681732
Ellipsoid Height (M):	81.952
Geoid Height (M):	-28.056

Location Description

To reach the station from the junction of highways 49 and 358 on the south side of Paragould go north on hwy-49 for 0.50 miles to a red light and "Pruetts chapel road" on the right. Turn west on Pruetts Chaple road and go 2.0 miles to "South rocking chair road", continue ahead on Pruetts chapel road to the top of the grade and the station on the left in a hay field. 51.7 feet south of the center of Pruetts chapel road and 1.0 feet north of a carsonite witness post. The station mark is a stainless steel rod driven to a refusal depth of 42.5 feet and is encased in a 6 inch pvc pipe and accessed through a standard logo cap.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	14 inch pine tree	232	22.10	72.5
MK # 2	Power pole	22	87.50	287.1
MK # 3	Wooden "T" fence corner	318	35.51	116.5

AZ Mark Station	L 324
Geodetic Azimuth	283 38 43
Grid Azimuth	282 48 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG, ARBT BLMM
Ref Mon # 2	280012,280012A
Ref Mon # 3	280006,280006A

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
KENNPORT	1/1/1989	NGS	MO / DUNKLIN	N/A	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	212,419.4210	0.0000
Easting (M)	576,633.0206	0.0000
Elevation (M)*	78.400	
Northing (SFT)	696,912.7171	
Easting (SFT)	1,891,836.8351	
Elevation (SFT)*	257.217	

Convergence Angle	1	8	36.2077932
Scale Factor	0.999999756		
Elevation Adjust. Factor	0.9999876966		
Combined Adjust. Factor	0.9999874526		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	13	55.4880000
Longitude	90	2	6.2520000
Ellipsoid Height (M):	163.789	0.0000	
Geoid Height (M):	-93.461	0.0000	

Location Description

OWNERSHIP--CITY OF KENNETT, CITY HALL, KENNETT, MO. 63857. AIRPORT MANAGER JOHN MC LAIN, PHONE 573-888-1339 OR 573-888-2929. NOTE--THIS STATION IS THE PRIMARY AIRPORT CONTROL (PAC) STATION, AND IS A NEW MADRID FAULT SEISMIC ZONE STATION. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 25 AND 84 AND U.S. HIGHWAY 412 AT THE SOUTHEAST EDGE OF KENNETT, GO WEST, 0.32 KM (0.20 MI) ALONG HIGHWAYS 84 AND 412 (FIRST STREET) , TO FIRE STATION NO. 2 AND AIRPORT ROAD ON THE LEFT. TURN LEFT, SOUTH, 0.3 KM (0.20 MI) ALONG AIRPORT ROAD TO THE AIRPORT OFFICE AND PARKING AREA ON THE LEFT. TURN LEFT, EAST, PASSING THROUGH A GATE ONTO THE APRON. TURN RIGHT, SOUTH, 0.2 KM (0.10 MI) ACROSS APRON AND ALONG THE MAIN TAXIWAY CROSSING THE TURF RUNWAY TO THE STATION ON THE LEFT, IN LINE WITH THE TAXIWAY LIGHT AND WITNESS POST. THE STATION IS 48.5 M (159.1 FT) WEST OF THE RUNWAY CENTER, 12.65 M (41.50 FT) EAST OF THE MAIN TAXIWAY CENTER, 3.6 M (11.8 FT) EAST OF A SHORT WITNESS POST, 3.45 M (11.32 FT) EAST OF AND IN LINE WITH A TAXIWAY LIGHT, AND THE STATION IS ABOUT 0.1 M (0.3 FT) BELOW THE MAIN TAXIWAY LEVEL AND RECESSED ABOUT 5-CM BELOW THE GROUND SURFACE. BY R.G. HAYES. NOTE--THE DATUM POINT IS A

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	NNPORT AZ MK (GE1112)
Geodetic Azimuth	177 37 49.6
Grid Azimuth	177 21 20.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
L 18	1/1/1932	NGS	BOONE	7	090225

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	203,426.0800	
Easting (M)	299,032.8660	
Elevation (M)*	370.627	
Northing (SFT)	667,407.0641	
Easting (SFT)	981,076.9945	
Elevation (SFT)*	1,215.965	

Convergence Angle	0	39	10.7322799
Scale Factor	0.999986633		
Elevation Adjust. Factor	0.9999418399		
Combined Adjust. Factor	0.9999284737		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	9	42.2271612
Longitude	93	7	19.7590692
Ellipsoid Height (M):	342.468		
Geoid Height (M):	-28.159		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 7 AND STATE HIGHWAY 43, SOUTH OF HARRISON, GO SOUTH ON HIGHWAY 7 FOR 4.2 MILES TO THE STATION ON THE RIGHT, WEST 34.0 FEET OF THE CENTERLINE OF THE HIGHWAY. THE STATION MARK IS A STANDARD BRASS

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARP 2
Ref Mon # 2	W.H. PHILLIPS
Ref Mon # 3	ARHR

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
L 28	1/1/1932	USC & GS	CRAWFORD	N/A	040373,040748

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	126,074.9075	0.0010
Easting (M)	191,712.1679	0.0010
Elevation (M)*	139.454	

Northing (SFT)	413,630.7590	
Easting (SFT)	628,975.6709	
Elevation (SFT)*	457.525	

Convergence Angle	-1	20	6.7516050
Scale Factor			0.999938753
Elevation Adjust. Factor			0.9999781156
Combined Adjust. Factor			0.9999168699

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	35	26	52.3233060
Longitude	94	17	40.4550744
Ellipsoid Height (M):	109.718		0.0000
Geoid Height (M):	-29.737		

Location Description

DESCRIBED BY COAST & GEODETIC SURVEY 1932, ABOUT 3.9 MILES EAST ALONG THE MISSOURI PACIFIC RAILROAD FROM VAN BUREN, CRAWFORD COUNTY, AT BOX SPRINGS SIDING, ABOUT 6 POLES WEST OF MILEPOST 494, ABOUT 15 RAILS WEST OF A ROAD CROSSING, AND 40 FEET SOUTH OF THE TRACK. A STANDARD DISK, STAMPED 457.243 L 28 1932 AND SET IN THE TOP OF A CONCRETE POST. UPDATED TO REACH NOTES BY AHTD STATES A FASTER WAY TO REACH THE POINT DESCRIBED IS TO TURN SOUTH ON SHIBLEY ROAD OFF OF HWY. 64 AND TRAVEL SOUTH 0.5 MILES TO THE RAILROAD CROSSING OF MISSOURI PACIFIC RAILROAD. THE POINT IS SOUTHWEST OF THE CROSSING, SOUTH OF THE RAILROAD TRACK (40 FEET) IN A FIELD WITH A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	OKHV

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
L 298	1/1/1985	NOAA	SEBASTIAN	71	001747

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	104,884.3391	
Easting (M)	185,697.6820	
Elevation (M)*	151.318	
Northing (SFT)	344,108.0359	
Easting (SFT)	609,243.1450	
Elevation (SFT)*	496.449	

Convergence Angle	-1	22	13.8031694
Scale Factor	0.999952286		
Elevation Adjust. Factor	0.9999762538		
Combined Adjust. Factor	0.9999285410		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	15	20.2791996
Longitude	94	21	18.7945740
Ellipsoid Height (M):	120.967		
Geoid Height (M):	-30.351		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-540, US HIGHWAY 71B AND US HIGHWAY 71, LOCATED ON THE SOUTH SIDE OF FORT SMITH, GO SOUTHEAST ON US HIGHWAY 71 FOR 7.61 KM (4.73 MI) TO THE STATION ON THE RIGHT. THE STATION IS 37.815 METER SOUTH-SOUTHEAST OF THE CENTER OF TREECE ROAD, 18.090 METERS SOUTH-SOUTHWEST OF THE CENTER OF THE SOUTH BOUND LANE OF US HIGHWAY 71, 5.068 METERS SOUTH-SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE AND 1.10 METERS EAST OF AN AHTD WITNESS POST. THE STATION IS A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS STEEL ROD 1.5 METERS LONG AND IS ENCASED IN A 5 INCH PVC PIPE . ACCESS IS THROUUGH A 5 INCH LOGO CAP STAMPED "L 289 1985"Used as BM 903 on Job 001747

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	WOODEN CORNER POST	293	15.80	51.9
MK # 2	SOUTHEAST END OF A 0.67 METER CMP	312	27.44	90.0
MK # 3	SOUTHWEST END OF A 0.67 METER RCP	328	19.18	62.9

AZ Mark Station	178 FSGIS
Geodetic Azimuth	305 38 54.62430
Grid Azimuth	307 01 08.46964

Area Reference Monuments (used for Processing)

Ref Mon # 1	FS 2
Ref Mon # 2	Q 299
Ref Mon # 3	GAYLOR

Comments

THE STATION IS A NGS BENCH MARK WITH A PUNCH MARK ON TOP OF A 5/8 INCH STAINLESS STEEL ROD. MONUMENTED BY NATIONAL GEODETIC SURVEY IN 1985, VERT DATUM 88, VERT ORDER FIRST ELEV. =151.318 METERS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
L 314	1/2/1990	NOAA	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	130,637.9098	
Easting (M)	546,878.1292	
Elevation (M)*	66.504	
Northing (SFT)	428,601.2091	
Easting (SFT)	1,794,215.9956	
Elevation (SFT)*	218.189	

Convergence Angle	0	56	31.6123621	
Scale Factor	0.999937011			
Elevation Adjust. Factor	0.9999895635			
Combined Adjust. Factor	0.9999265751			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	29	59.9604144	
Longitude	90	22	51.4771536	
Ellipsoid Height (M):	38.932			
Geoid Height (M):	-27.572			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 2.82 KM (1.75 MI) TO THE STATION ON LEFT SET IN THE MEDIAN. THE STATION IS 12.2 METERS SOUTHEAST OF THE CENTER OF A PAVED CROSSOVER, 9.70 METERS NORTHEAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION IS A STAINLESS STEEL ROD WITH A PUNCH MARK IN TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METERS LOGO CAP STAMPED "L 314 1990". THE SHOT DISTANCE IS 625.073 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	L 315A
Geodetic Azimuth	138 52 32.54013
Grid Azimuth	137 56 00.91785

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
L 314A	10/2/2000	AHTD	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	130,173.9054	
Easting (M)	547,296.8957	
Elevation (M)*	65.991	
Northing (SFT)	427,078.8880	
Easting (SFT)	1,795,589.8986	
Elevation (SFT)*	216.505	

Convergence Angle	0	56	41.1038354
Scale Factor	0.999937122		
Elevation Adjust. Factor	0.9999896440		
Combined Adjust. Factor	0.9999267666		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	29	44.6821548
Longitude	90	22	35.1659532
Ellipsoid Height (M):	38.413		
Geoid Height (M):	-27.568		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S HIGHWAY 63 AND STATE HIGHWAY 118, LOCATED IN TYRONZA, GO NORTHWEST ON U.S. HIGWAY 63 FOR 2.17 KM (1.35 MI) TO THE STATION ON THE LEFT SET IN THE MEDIAN. THE STATION IS 29.50 METERS NORTHWEST OF A PAVED CROSSOVER, 13.65 METERS NORTHEAST OF THE CENTER OF SOUTHBOUND LANE OF U.S. HIGHWAY 63, 12.50 METERS SOUTHWEST OF THE CENTER OF NORTHBOUND LANE OF U.S. HIGHWAY 63 AND 0.50 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "L 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5202 FROM NGS BENCH MARK L 314. THE SHOT DISTANCE IS 625.073 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	L 314
Geodetic Azimuth	318 52 42.01160
Grid Azimuth	317 56 00.91785

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
L 324	11/5/2008	AHTD	Greene	NA	100445

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	190,627.7210	
Easting (M)	529,606.6850	
Elevation (M)*	116.217	
Northing (SFT)	625,417.7813	
Easting (SFT)	1,737,551.2657	
Elevation (SFT)*	381.289	

Convergence Angle	0	50	13.0857547
Scale Factor	0.999967919		
Elevation Adjust. Factor	0.9999817621		
Combined Adjust. Factor	0.9999496817		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	34.9425960
Longitude	90	33	41.9792580
Ellipsoid Height (M):	88.162		
Geoid Height (M):	-28.053		

Location Description

To reach the station from the junction of highways 412 and 49Y in Paragould go west on hwy-412 2.0 miles to "Walcottroad" on the left. Turn left and southwest on Walcott road and go 0.90 miles to a junction with "Spring Grove road", continue straight ahead on Spring Grove road for 0.90 miles to the station on the left, 25.0 feet east of the center of the road and 1.0 feet west of a carsonite witness post.The station mark is a brass cap stamped "L 324 2009" set in the top of a 12 inch round concrete post and is flush with the ground.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Power pole	344	4.88	16.0
MK # 2	Power pole	281	15.09	49.5
MK # 3				

AZ Mark Station	K 324
Geodetic Azimuth	103 38 31
Grid Azimuth	102 48 18

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG, ARBT BLMM
Ref Mon # 2	280012,280012A
Ref Mon # 3	280006,280006A

Comments

Digital Levels ran by crew S5113 in March 2009 from 1st Order NGS marks K 187, L 187, PARAGOULD BM, L 32, O 8 4, M 187, FIRST, FIRST AZ MK, Q 188.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
LA 1	2/26/1998	AHTD	ASHLEY	LA 14	020240

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	437,613.9479	
Easting (M)	406,331.3600	
Elevation (M)*	33.564	
Northing (SFT)	1,435,738.4274	
Easting (SFT)	1,333,105.4703	
Elevation (SFT)*	110.118	

Convergence Angle	0	2	16.5047161
Scale Factor	1.000078245		
Elevation Adjust. Factor	0.9999947327		
Combined Adjust. Factor	1.0000729773		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	0	20.7600912
Longitude	91	55	56.1068652
Ellipsoid Height (M):	7.727		
Geoid Height (M):	-25.875		

Location Description

THE STATION IS LOCATED IN MOREHOUSE PARISH, LOUISIANA. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 133T, LOCATED ON THE SOUTH SIDE OF CROSSETT, GO SOUTH ON STATE HIGHWAY 133 FOR 13.04 KM (8.10 MI) TO THE LOUISIANA STATE LINE, CONTINUE SOUTH ON LOUISIANA STATE HIGHWAY 142 FOR 0.22 KM (0.14 MI) TO THE STATION ON THE RIGHT. THE STATION IS 34.109 METERS NORTH OF A GRAVEL DRIVE, 13.616 METERS WEST OF THE CENTER OF LOUISIANA STATE HIGHWAY 142 AND 0.50 METERS EAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "LA 1 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE	89	32.61	107.0
MK # 2	NORTH END OF WEST HEADWALL	145	24.08	79.0
MK # 3	LIGHT POLE	178	32.84	107.7

AZ Mark Station	LA 1A
Geodetic Azimuth	159 10 36.05872
Grid Azimuth	159 08 19.50423

Area Reference Monuments (used for Processing)

Ref Mon # 1	LISA
Ref Mon # 2	STELL
Ref Mon # 3	G 65 OFFSET,A 200 OFFSET

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
LA 1A	2/26/1998	AHTD	ASHLEY	LA 14	020240

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	437,160.5259
Easting (M)	406,504.1540
Elevation (M)*	33.280
Northing (SFT)	1,434,250.8254
Easting (SFT)	1,333,672.3786
Elevation (SFT)*	109.186
Convergence Angle	0 2 20.2235236
Scale Factor	1.000079516
Elevation Adjust. Factor	0.9999947773
Combined Adjust. Factor	1.0000742929

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 0 6.0392556
Longitude	91 55 49.4624676
Ellipsoid Height (M):	7.440
Geoid Height (M):	-25.874

Location Description

THE STATION IS LOCATED IN MOREHOUSE PARISH, LOUISIANA. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 133 AND STATE HIGHWAY 133T, LOCATED ON THE SOUTH SIDE OF CROSSETT, GO SOUTH ON STATE HIGHWAY 133 FOR 13.04 KM (8.10 MI) TO THE LOUISIANA STATE LINE, CONTINUE SOUTH ON LOUISIANA STATE HIGHWAY 142 FOR 0.70 KM (0.43 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.95 METERS EAST OF THE CENTER OF LOUISISANA STATE HIGHWAY 142 AND 0.55 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "LA 1A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	0.60 METER PINE TREE	336	20.20	66.3
MK # 2	POWER POLE	145	14.90	48.9
MK # 3				

AZ Mark Station	LA 1
Geodetic Azimuth	339 10 39.67788
Grid Azimuth	339 08 19.50423

Area Reference Monuments (used for Processing)

Ref Mon # 1	LISA
Ref Mon # 2	STELL
Ref Mon # 3	G 65 OFFSET,A 200 OFFSET

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
LA GPS 8	1/30/2002	LaDOTD	MILLER	71	R30079

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	439,521.3544
Easting (M)	221,964.1135
Elevation (M)*	
Northing (SFT)	1,441,996.3102
Easting (SFT)	728,227.2624
Elevation (SFT)*	
Convergence Angle	-1 3 58.7931338
Scale Factor	1.000077540
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	0	28.9635192
Longitude	93	54	18.7761492
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

To reach the point from the junction of U.S. Highway 71 and State Highway 168 in Ida, go west for 0.4 mi on highway 168 to the junction with Ida State Line Rd, continue west for 0.3 mi on Ida State Line Rd to the point on the left. The point is a _ inch iron pin driven into the ground. It is 55.5 ft northwest from a power pole # 175772 with transformer attached, 43.5 ft west-southwest from a telephone junction box # 7200-4 on the north side of the road and 19.5 ft southwest from the center of the road.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	LA GPS 9
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON; LA GPS 8 & 9
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

CADDO PARISH, LA. CONVERTED FROM LA NORTH ZONE 1701

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
LA GPS 9	1/30/2002	LaDOTD	MILLER	71	R30079

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	439,655.9184
Easting (M)	221,793.6932
Elevation (M)*	
Northing (SFT)	1,442,437.7923
Easting (SFT)	727,668.1418
Elevation (SFT)*	
Convergence Angle	-1 4 2.5209155
Scale Factor	1.000077173
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	0	33.2274276
Longitude	93	54	25.4365812
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

To reach the point from the junction of U.S. Highway 71 and State Highway 168 in Ida, go west for 0.4 mi on highway 168 to the junction with Ida State Line RD, continue west for 0.4 mi on Ida State Line Rd to the point on the left, just west of a red brick house on the north side of the road. The point is a _ inch iron pin driven into the ground. It is 59 ft south from a 24-inch blackjack tree, 37.5 ft west from a telephone junction box #7200-5, 14.5 ft southwest from the center of the road and 7.5 ft north-northeast from a buried cable warning sign.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	LA GPS 8
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NEW BOSTON; LA GPS 8 & 9
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

CADDO PARISH, LA. CONVERTED FROM LA NORTH ZONE 1701

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
LAKE	1/1/1986	NGS	CHICOT	65	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	474,974.7521
Easting (M)	463,589.1530
Elevation (M)*	37.620
Northing (SFT)	1,558,312.9992
Easting (SFT)	1,520,958.7461
Elevation (SFT)*	123.425

Convergence Angle	0	22	56.3428284
Scale Factor			0.999991224
Elevation Adjust. Factor			0.9999940962
Combined Adjust. Factor			0.9999853203

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	20	26.6149716	
Longitude	91	19	0.8866704	
Ellipsoid Height (M):	11.470			
Geoid Height (M):	-26.100			

Location Description

THE STATION IS LOCATED ABOUT 22 KM (13.65 MI) SOUTHEAST OF DERMOTT, 2 KM (1.25 MI) NORTHWEST OF LAKE VILLAGE, AT THE LAKE VILLAGE MUNICIPAL AIRPORT, NEAR THE SOUTHWEST END OF THE AIRFIELD, IN THE GRASSY AREA OF THE CIRCULAR TURNAROUND FOR RUNWAY END 1. OWNERSHIP--CITY OF LAKE VILLAGE. AIRPORT MANAGER IS MIKE DAVIS, CHISAIR INC., PO BOX 162, LAKE VILLAGE AR 71653, PHONE 501-265-2723 OR 265-5566. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 82 AND 65, AND STATE HIGHWAY 144 ON THE NORTHWEST SIDE OF LAKE VILLAGE, GO NORTH ON HIGHWAY 65 FOR 0.87 KM (0.55 MI) TO COUNTY HIGHWAY 980 (AIRPORT ROAD) ON THE LEFT. TURN LEFT, WEST ON THE PAVED ROAD FOR 2.36 KM (1.45 MI) TO A PAVED ROAD RIGHT (HANGAR ROAD). TURN RIGHT, NORTH ON THE ROAD FOR 0.62 KM (0.40 MI) TO A HANGAR AND AN APRON ON THE LEFT. TURN LEFT, NORTHWEST ACROSS THE APRON AND THEN WEST ALONG A CONNECTOR TAXIWAY FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE RUNWAY. TURN LEFT, SOUTH ALONG THE RUNWAY FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT. THE STATION IS SET IN THE TOP OF A 30 CM ROUND CONCRETE POST RECESSED 3 CM BELOW THE GROUND. IT IS 46.1 M (151.2 FT) SOUTHEAST OF THE FIRST

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ND SURVEY BA	1/1/1993	MoDOT	MO / PHELPS	N/A	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	400,918.4497	0.0000
Easting (M)	418,592.6154	0.0000
Elevation (M)*	344.128	0.0000
Northing (SFT)	1,315,346.6137	
Easting (SFT)	1,373,332.6057	
Elevation (SFT)*	1,129.027	

Convergence Angle	0	7	22.7647189
Scale Factor	1.000790526		
Elevation Adjust. Factor	0.9999459980		
Combined Adjust. Factor	1.0007364813		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	37	56	44.6640000
Longitude	91	47	19.1040000
Ellipsoid Height (M):	1,028.196	0.0000	
Geoid Height (M):	-100.817	0.0000	

Location Description

THE STATION IS LOCATED IN ROLLA, MO. AT THE DEPARTMENT OF NATURAL RESOURCES, INSIDE THE LAND SURVEY BUILDING, IN A HALLWAY UNDER A SKYLIGHT, IN FRONT OF THE LADIES REST ROOM, OWNERSHIP--STATE OF MISSOURI, DEPARTMENT OF NATURAL RESOURCES, LAND SURVEY PROGRAM, P.O. BOX 250, ROLLA, MO. 65402. PHONE 573-368-2300. NOTE--CONTACT MR. MIKE FLOWERS (24-HOURS IN ADVANCE) . TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 44 (EXIT 184) AND STATE HIGHWAY 72 (KINGS HIGHWAY) ON THE WEST SIDE OF ROLLA, GO EAST, 0.48 KM (0.30 MI) ALONG HIGHWAY 72 TO THE INTERSECTION OF FAIRGROUNDS ROAD. TURN LEFT, NORTH, 0.2 KM (0.10 MI) ALONG THE ROAD TO GALE DRIVE ON THE LEFT. TURN LEFT, WEST, 0.2 KM (0.10 MI) ALONG GALE DRIVE TO THE LAND SURVEY BUILDING AND THE STATION INSIDE THE BUILDING. THE STATION IS 9.9 M (32.5 FT) EAST OF THE MAIN ENTRANCE OF THE BUILDING, 1.4 M (4.6 FT) WEST OF THE DOOR AT THE END OF THE HALL (ALSO DOORS LEADING DOWN RAMP TO MICROFILMING AND INDEXING SECTION) . BY R.G. HAYES.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ONARD NCMN 7	1/1/1985	NGS	OK / TULSA	N/A	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	174,830.4133	0.0000
Easting (M)	419,077.9331	0.0000
Elevation (M)*	256.609	
Northing (SFT)	573,589.4476	
Easting (SFT)	1,374,924.8522	
Elevation (SFT)*	841.891	

Convergence Angle	0	7	22.7647189	
Scale Factor			0.999951953	
Elevation Adjust. Factor			0.9999597313	
Combined Adjust. Factor			0.9999116862	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	54	32.4360000	
Longitude	91	47	19.1040000	
Ellipsoid Height (M):			746.217	0.0000
Geoid Height (M):			-29.180	0.0000

Location Description

0.1 KM (0.05 MI) WESTERLY ALONG U.S. HIGHWAY 64 FROM THE POST OFFICE IN LEONARD, THENCE 1.8 KM (1.10 MI) SOUTHERLY ALONG SOUTH 157TH AVENUE EAST AND THEN BIXHOMA LAKE ROAD, THENCE 0.2 KM (0.10 MI) EASTERLY ALONG A PAVED ROAD, THENCE 0.1 KM (0.05 MI) NORTHERLY ALONG THE OKLAHOMA GEOLOGICAL SURVEY COMPLEX ENTRANCE ROAD, 22.8 M (74.8 FT) NORTHWEST OF THE ROAD CENTER AT A CURVE, 20.5 M (67.3 FT) NORTH OF A UTILITY POLE, 15.3 M (50.2 FT) NORTH OF REFERENCE MARK 3, 15.3 M (50.2 FT) SOUTH OF REFERENCE MARK 1, 15.3 M (50.2 FT) EAST OF REFERENCE MARK 2, AND NEAR THE CENTER OF 4 WITNESS POSTS. NOTE--THE DISK IS SET IN CONCRETE IN A DEPRESSION IN BEDROCK AND IS 0.1 M (0.3 FT) BELOW THE GROUND SURFACE. TO GAIN ACCESS TO THE COMPLEX, USE PHONE AT GATE. TELEPHONE NUMBER (918) 366-6468. STATION HAS A 30 DEGREE HIGH HORIZON BLOCKAGE TO THE NORTHWEST. SITUATION WILL WORSEN AS SMALL CLEARING CLOSES IN AND TREES GROW.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
LISA	1/1/1986	LaDOT	A / MOREHOUS	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	410,028.4191	0.0000
Easting (M)	411,139.0897	0.0000
Elevation (M)*	50.152	
Northing (SFT)	1,345,234.9050	
Easting (SFT)	1,348,878.8301	
Elevation (SFT)*	164.540	

Convergence Angle	0	3	59.4692573
Scale Factor	1.000164631		
Elevation Adjust. Factor	0.9999921296		
Combined Adjust. Factor	1.0001567593		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	32	45	25.2720000
Longitude	91	52	52.1400000
Ellipsoid Height (M):	79.728		0.0000
Geoid Height (M):	-84.846		0.0000

Location Description

THE STATION IS LOCATED ABOUT 15.0 MI (24.1 KM) NORTH OF MONROE, 2.5 MI (4.0 KM) WEST OF MER ROUGE AND 2.0 MI (3.2 KM) EAST OF BASTROP. OWNERSHIP--CITY OF BASTROP, FOR ENTRANCE INTO THE AIRPORT CONTACT MR. JOHN BOLTON, AIRPORT MANAGER, PHONE 318-281-0544. TO REACH THE STATION FROM THE COURTHOUSE IN BASTROP, GO EAST FOR 2.1 MI (3.4 KM) ON STATE HIGHWAY 2 TO THE JUNCTION WITH A PARISH ROAD NUMBER 4437 (MARLATT ROAD). TURN RIGHT AND GO SOUTH FOR 1.4 MI (2.3 KM) ON THE PARISH ROAD TO A ROAD ON THE LEFT WHICH IS THE ENTRANCE INTO THE AIRPORT, AND THE STATION, NEAR THE JUNCTION OF THE RUNWAY AND A RAMP LEADING FROM THE APRON TO THE TAXIWAY AND RUNWAY. THE STATION IS 400.0 FT (121.9 M) EAST FROM THE SOUTHEAST CORNER OF A YELLOW ALUMINUM HANGAR, 143.5 FT (43.7 M) SOUTHEAST FROM A WIND TEE, 76.5 FT (23.3 M) WEST FROM THE CENTER OF THE RUNWAY, 63.5 FT (19.4 M) NORTH FROM THE CENTER OF THE RAMP LEADING TO THE APRON, 14.4 FT (4.4 M) SOUTH-SOUTHWEST OF THE WESTERNMOST ONE OF THREE TAXIWAY LIGHTS, 2.0 FT (0.6 M) EAST-NORTHEAST FROM A FIBERGLASS WITNESS POST, RECESSED 2 CM BELOW GROUND AND ABOUT LEVEL WITH THE RUNWAY.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	LISA AZ MK (CP3177)
Geodetic Azimuth	164 08 06.8
Grid Azimuth	163 48 28.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
M 21	1/1/1932	NGS	POLK	88	040352,040444

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	614,845.2559	
Easting (M)	194,533.0300	
Elevation (M)*	358.917	
Northing (SFT)	2,017,204.8104	
Easting (SFT)	638,230.4493	
Elevation (SFT)*	1,177.547	

Convergence Angle	-1	15	12.7817198
Scale Factor			0.999964270
Elevation Adjust. Factor			0.9999436774
Combined Adjust. Factor			0.9999079494

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	35	0.3651828	
Longitude	94	14	22.9923384	
Ellipsoid Height (M):	328.870			
Geoid Height (M):	-30.090			

Location Description

STATION IS LOCATED ABOUT 11.1 KM (6.9 MI) WEST OF INK, 9.6 KM (6.0 MI) NORTHEAST OF POTTER, AND 0.3 KM (0.2 MI) NORTHWEST OF CENTER OF MENA. IN THE CENTER OF THE TRAFFIC CIRCLE OF JANSSEN PARK. TO REACH FROM THE JUNCTION OF U.S.HIGHWAYS 59, 71 AND STATE HIGHWAY 88 IN THE CENTER OF MENA. GO NORTHWEST ON STATE HIGHWAY 88 FOR 0.28 KM (0.17 MI) TO A CROSS STREET AT THE CITY HALL. TURN LEFT AND GO SOUTHWEST ON MAPLE AVENUE FOR 0.31 KM (0.19 MI) TO WHERE MAPLE AVENUE DEAD ENDS AT THE TRAFFIC CIRCLE IN JANSSEN PARK. AND THE STATION STRAIGHT AHEAD IN THE CENTER OF THE TRAFFIC CIRCLE. STATION IS A STANDARD CGS BENCH MARK DISK STAMPED---M 21 1932 1177.215---. SET IN THE TOP OF A 30-CM SQUARE CONCRETE POST THAT PROJECTS 24-CM ABOVE THE GROUND. IT IS 23.9 M (78.4 FT) SOUTHEAST OF THE SOUTHEAST CORNER OF A CABIN WITH SIGN BUILT IN 1851, 12.5 M (41.0 FT) SOUTHWEST OF A FLAGPOLE, 6.6 M (21.7 FT) SOUTHWEST OF THE SOUTHWEST CORNER OF THE BASE OF A CLOCK, AND 1.0 M (3.3 FT) WEST-NORTHWEST OF THE NORTHEAST CORNER OF THE CONCRETE BASE AROUND A FLOWER BED. DESCRIBED BY E.J.HANSMANN.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
M 289	1/1/1984	NOAA	LINCOLN	65	20137

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	552,390.5750	
Easting (M)	435,297.2500	
Elevation (M)*	54.414	
Northing (SFT)	1,812,301.4115	
Easting (SFT)	1,428,137.7277	
Elevation (SFT)*	178.523	

Convergence Angle	0	12	50.2494105
Scale Factor	0.999918474		
Elevation Adjust. Factor	0.9999914607		
Combined Adjust. Factor	0.9999099354		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	2	24.1730340
Longitude	91	37	3.7944840
Ellipsoid Height (M):	28.514		
Geoid Height (M):	-25.900		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 8.80 KM (5.45 MI) TO THE JUNCTION OF STATE HIGHWAY 388 AND THE STATION ON THE RIGHT SET IN FRONT OF A DEPARTMENT OF CORRECTIONS SIGN. THE STATION IS 25. 6 METERS NORTHEAST OF THE CENTER OF U.S. HIGHWAY 65, 17.9 METERS NORTHWEST OF THE CENTER OF STATE HIGHWAY 388, 1.6 METERS SOUTHEAST OF THE SOUTHEAST FACE OF BRICK PLANTER AND 2.6 METERS NORTHEAST OF A GROUND FLOODLIGHT. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN IN THE GROUND AND CAN BE REACHED THROUGH A 0.13 METER LOGO CAP STAMPED "M 289 1984" SET FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	CENTER OF HEADWALL	174	11.60	38.1
MK # 2	SOUTHWEST CORNER OF BRICK SIGN	249	5.10	16.7
MK # 3	NORTHEAST CORNER OF BRICK SIGN	8	3.70	12.1

AZ Mark Station	M 289A
Geodetic Azimuth	133 19 50.83505
Grid Azimuth	133 07 00.58622

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
M 289A	12/8/1998	AHTD	LINCOLN	65	20137

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	551,948.6300
Easting (M)	435,769.2440
Elevation (M)*	53.209
Northing (SFT)	1,810,851.4636
Easting (SFT)	1,429,686.2614
Elevation (SFT)*	174.570

Convergence Angle	0	13	0.5125773
Scale Factor			0.999918470
Elevation Adjust. Factor			0.9999916498
Combined Adjust. Factor			0.9999101205

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	2	9.7710864	
Longitude	91	36	45.4572720	
Ellipsoid Height (M):	27.282			
Geoid Height (M):	-25.901			

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN GRADY, GO SOUTHEAST ON U.S. HIGHWAY 65 FOR 9.45 KM (5.87 MI) TO THE STATION ON THE RIGHT. THE STATION IS 30.81 METERS NORT-NORTHEAST OF THE NORTHEAST RAIL, 20.22 METERS SOUTH-SOUTWEST OF THE CENTER OF U.S. HIGHWAY 65 AND 0.50 METERS NORTH-NORTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "M 289A 1998" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	M 289
Geodetic Azimuth	313 20 01.09920
Grid Azimuth	313 07 00.58622

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD MON 1
Ref Mon # 2	J 112
Ref Mon # 3	K 124

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
M 314	1/2/1990	NOAA	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	133,645.2539	
Easting (M)	543,861.3448	
Elevation (M)*	66.419	
Northing (SFT)	438,467.8038	
Easting (SFT)	1,784,318.4287	
Elevation (SFT)*	217.910	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	31	39.1263996	
Longitude	90	24	49.2479388	
Ellipsoid Height (M):	38.824			
Geoid Height (M):	-27.595			

Convergence Angle	0	55	23.0816449	
Scale Factor	0.999936423			
Elevation Adjust. Factor	0.9999895768			
Combined Adjust. Factor	0.9999260005			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63B, STATE HIGHWAY 308 AND STATE HIGHWAY 149 SOUTH, LOCATED IN MARKED TREE, GO SOUTHWEST ON U.S. HIGHWAY 63B FOR 0.51 IM (0.32 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.50 METERS SOUTHWEST OF THE NEAR RAIL, 12.20 METERS NORTHEAST OF THE CENTER OF U.S. HIGWAY 63B (FRISCO STREET), 1.60 METERS SOUTHWEST OF THE EXTENDED CENTER OF 6TH STREET, 0.50 METERS SOUTHWEST OF AN AHTD WITNESS POST AND 0.30 METERS NORTHWEST OF A FIBERGLASS WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITHN ACCESS THROUGH A 0.127 METERS LOGO CAP STAMPED "M 314 1990". THE SHOT DISTANCE IS 506.571 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	313	2.30	7.5
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	M 314A
Geodetic Azimuth	132 55 48.93656
Grid Azimuth	132 00 25.84888

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
M 314A	10/2/2000	AHTD	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	133,306.2722	
Easting (M)	544,237.7272	
Elevation (M)*	65.114	
Northing (SFT)	437,355.6614	
Easting (SFT)	1,785,553.2767	
Elevation (SFT)*	213.628	

Convergence Angle	0	55	31.6478015
Scale Factor	0.999936478		
Elevation Adjust. Factor	0.9999897816		
Combined Adjust. Factor	0.9999262602		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	31	27.9311880
Longitude	90	24	34.5269052
Ellipsoid Height (M):	37.513		
Geoid Height (M):	-27.593		

Location Description

THE STATION IS SET AT THE JUNCTION OF U.S. HIGHWAY 63B, STATE HIGHWAY 308 AND STATE HIGHWAY 149 SOUTH IN MARKED TREE. THE STATION IS 26.90 METERS SOUTHWEST OF THE CENTER OF U.S. HIGWAY 63B, 19.10 METERS NORTHWEST OF THE CENTER OF STATE HIGWAY 149 SOUTH AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STANPED "M 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METER LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK M 314. THE SHOT DISTANCE IS 506.571.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	51	4.40	14.4
MK # 2	NORTHEAST CORNER OF CHURCH OF CHRI ST	252	36.70	120.4
MK # 3	NONE			

AZ Mark Station	M 314
Geodetic Azimuth	312 55 57.49054
Grid Azimuth	312 00 25.84888

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
M 319	10/9/2006	AHTD	Drew	278	01873,020462,020470,C2200

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	507,341.3182	
Easting (M)	410,098.2600	
Elevation (M)*	63.746	
Northing (SFT)	1,664,502.3081	
Easting (SFT)	1,345,464.0414	
Elevation (SFT)*	209.140	

Convergence Angle	0	3	39.3178457
Scale Factor			0.999942687
Elevation Adjust. Factor			0.9999899963
Combined Adjust. Factor			0.9999326839

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	38	3.9123816
Longitude	91	53	28.1445504
Ellipsoid Height (M):	38.105		
Geoid Height (M):	-25.659		

Location Description

To reach the station from the junction of highways 278 and 425 in Monticello go west on hwy-278 for 5.30 miles to a paved road on the right, turn right on the paved road and go north to a curve in the road and the station near the fence corner. 222.0 feet north of the center of hwy-278, 45.40 feet north of the center of the paved road . The station mark is a 3D NGS stainless steel rod 46.50 feet long and driven to refusal under a logo cap stamped "M 319 2006" and anchored in concrete.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Right of way fence corner		3.23	10.6
MK # 2				
MK # 3				

AZ Mark Station	220032
Geodetic Azimuth	258 27 29
Grid Azimuth	258 23 50

Area Reference Monuments (used for Processing)

Ref Mon # 1	Warrport, Warrport Az.
Ref Mon # 2	ARCM,ARLR, UAM AFRC SIS
Ref Mon # 3	W 77, T 83, 220013, 220001A

Comments

3-wire levels ran in March 07 by crews S5101, S5103, S5111, S5105 from NGS marks T 83, WARREN MAG, E 83, AND D 83.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
M 326	6/9/2009	ARDOT	POPE	6th Stree	080686

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	103,754.6182	0.0010
Easting (M)	299,544.3928	0.0010
Elevation (M)*	114.922	0.0010
Northing (SFT)	340,401.6099	
Easting (SFT)	982,755.2287	
Elevation (SFT)*	377.040	

Convergence Angle	0	38	32.8049170
Scale Factor	0.999951515		
Elevation Adjust. Factor	0.9999819653		
Combined Adjust. Factor	0.9999334812		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	15	48.5181576	
Longitude	93	6	14.5804824	
Ellipsoid Height (M):	85.794			0.0000
Geoid Height (M):	-29.128			

Location Description

FROM THE INTERSECTION OF US HIGHWAY 64 AND STATE ROAD 324 EAST OF RUSSELLVILLE, GO EAST ON ROAD 324 FOR 0.45 MILES TO MACON AVENUE ON THE RIGHT. TURN RIGHT ON AVENUE AND GO 0.5 MILES UNTIL MACON AVENUE TURNS INTO 16TH STREET IN A CURVE. CONTINUE ON 16TH STREET FOR 0.5 MILES TO A STOP SIGN AT HIGHWAY 331. CONTINUE ON 16TH STREET FOR 0.05 MILES TO THE STATION ON THE LEFT. BENCHMARK DISK STAMPED "M 326 2009" SET 1.6 FEET WEST OF THE CL OF A DROP INLET.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE BOX	270	21.10	69.2
MK # 2	CL 16TH STREET	180	11.10	36.4
MK # 3	CL DAYTON AVENUE	90	18.50	60.7

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARRV
Ref Mon # 2	ARDV
Ref Mon # 3	ARCW

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
M 333	1/4/2012	AHTD	BOONE	N/A	R90095 090555

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	204,531.4595	0.0030
Easting (M)	308,651.6132	0.0030
Elevation (M)*	384.542	
Northing (SFT)	671,033.6300	
Easting (SFT)	1,012,634.5010	
Elevation (SFT)*	1,261.618	

Vertical Determined By:	2nd Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	10	21.4751820	
Longitude	93	0	55.3916772	
Ellipsoid Height (M):	356.269			0.0001
Geoid Height (M):	-28.273			0.0001

Convergence Angle	0	35	27.0692296
Scale Factor	0.999988567		
Elevation Adjust. Factor	0.9999396565		
Combined Adjust. Factor	0.9999282242		

Location Description

TO REACH FROM THE INTERSECTION OF HIGHWAY 65 AND HIGHWAY 123, GO NORTH ALONG HIGHWAY 65 FOR 6.7 MI (10.8 KM) TO AN ASPHALT ROAD THEN TURN
LEFT GO EAST ON THE ROAD FOR 0.08 MI (0.1 KM) TO THE STATION ON THE LEFT. IT IS 12.5 M (41.0 FT) NORTH OF A WITNESS POST, 208 FT (63.4 M) SOUTHEAST OF THE SOUTH EAST CORNER OF THE RIVER OF LIFE CHURCH, 48 FT (14.6 M) NORTHEAST OF A COMBINATION POLE, 30 FT (9.1 M) EAST OF AN ASPHALT DRIVE, 26.6 FT (8.1 M) NORTH OF AN ASPHALT ROAD AND 10 FT (3.0M) NORTHWEST OF A WATER METER.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARRV
Ref Mon # 3	ARM3, MOBR

Comments

USED NGS PUBLISHED ELEV. IN FINAL STATIC NETWORK ADJUSTMENT

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MAGNOLIA 2	1/1/1976	NGS	COLUMBIA	371	070304

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	469,876.5730
Easting (M)	284,872.8250
Elevation (M)*	105.708
Northing (SFT)	1,541,586.7233
Easting (SFT)	934,620.2600
Elevation (SFT)*	346.811
Convergence Angle	0 41 30.4308927
Scale Factor	1.000002146
Elevation Adjust. Factor	0.9999834112
Combined Adjust. Factor	0.9999855572

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 17 25.4605596
Longitude	93 14 9.6557676
Ellipsoid Height (M):	79.270
Geoid Height (M):	-26.390

Location Description

THE STATION IS LOCATED IN THE NORTHERN PART OF MAGNOLIA, ON THE CAMPUS OF SOUTHERN ARKANSAS UNIVERSITY, ON THE NORTH SIDE OF THE HARTON THEATER. TO REACH THE STATION FROM THE COLUMBIA COUNTY COURTHOUSE IN MAGNOLIA, GO EAST ON STATE HIGHWAY 82-B FOR 0.12 MILES (0.19 KM) TO THE INTERSECTION OF U.S. HIGHWAY 82 AND ARKANSAS STATE HIGHWAYS 79-B AND 133. TURN LEFT AND GO NORTH ON HIGHWAY 133 FOR 1.8 MILES (2.9 KM) TO A PARKING LOT AND A SIX-STORY BELL TOWER AND THE STATION ON THE RIGHT. THE STATION IS IN FRONT OF THE HARTON THEATER UNDER THE THEATER SIGN. LOCATED 59.2 FEET (18.0 M) NORTHEAST OF THE NORTHWEST CORNER OF THE THEATER BUILDING, 59.1 FEET (18.0 M) NORTHWEST OF THE NORTHEAST CORNER OF THE SAME BUILDING, 11.2 FEET (3.4 M) NORTH OF THE NORTH EDGE OF AN EAST-WEST SIDEWALK, 8.8 FEET (2.7 M) NORTH OF A LIGHT POLE AND FLUSH WITH GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MAGNOLIA 2 AZ MK (DL1471)	083 58	157.03	515.2
MK # 2	MAGNOLIA 2 RM 5 (DL0629)	122 21	16.07	52.7
MK # 3	MAGNOLIA (DL0626)	286 19	32.29	105.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Digital Levels ran March 2009 by crew S5110 from 2nd order NGS marks Magnolia RM 2 and H120 (Job 070177 was ran with 3wire levels from H120 and appended to digital levels on Job 070304 from Magnolia RM 2)

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MANIPORT	1/1/2000	NGS	MISSISSIPPI	77	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	174,445.7589
Easting (M)	566,572.7470
Elevation (M)*	73.150
Northing (SFT)	572,327.4607
Easting (SFT)	1,858,830.7541
Elevation (SFT)*	239.993
Convergence Angle	1 4 25.2417872
Scale Factor	0.999950286
Elevation Adjust. Factor	0.9999885205
Combined Adjust. Factor	0.9999388071

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 53 29.9781708
Longitude	90 9 17.5398192
Ellipsoid Height (M):	45.200
Geoid Height (M):	-28.000

Location Description

THE STATION IS LOCATED ABOUT 16 KM (9.95 MI) EAST-NORTHEAST OF MONETTE, 9 KM (5.60 MI) SOUTHEAST OF LEACHVILLE, ON THE NORTHEAST SIDE OF MANILLA AT THE MANILLA MUNICIPAL AIRPORT, JUST SOUTH OF MIDFIELD AND DUE EAST OF THE AIRPORT BEACON. OWNERSHIP--CITY OF MANILLA, PO BOX 895, MANILLA, AR 72442. AIRPORT MANAGER IS JIMMY WHITE WHO CAN BE REACHED AT 501-561-4437 (CITY HALL NUMBER) OR 501-561-3375 (BUSINESS NUMBER) . NOTE--THIS STATION IS A PRIMARY AIRPORT CONTROL (PAC) STATION. TO REACH THE STATION FROM THE EAST ONE OF TWO JUNCTIONS OF STATE HIGHWAYS 77 AND 18 IN MANILLA, GO NORTHEAST AND EAST ON HIGHWAY 18 FOR 0.72 KM (0.45 MI) TO HIGHWAY 18B (BALTIMORE STREET) ON THE LEFT. TURN LEFT AND GO NORTH ON BALTIMORE STREET FOR 1.53 KM (0.95 MI) TO THE JUNCTION OF LAKE STREET. TURN RIGHT ON LAKE STREET AND GO EAST FOR 0.89 KM (0.55 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ROAD FOR 0.36 KM (0.20 MI) TO A GATE. PASS THROUGH THE GATE, TURN RIGHT AND PROCEED EAST ON A PAVED ROAD FOR 0.08 KM (0.05 MI) TO WHERE THE ROAD TURNS RIGHT. TURN RIGHT AND GO SOUTH ON THE ROAD AND ACROSS THE APRON FOR 0.16 KM (0.10 MI) TO A

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	ANIPORT AZ MK (FF2146)
Geodetic Azimuth	000 30 21.4
Grid Azimuth	359 25 56.2

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MATNEY	1/1/1953	NGS	BAXTER	341	009813

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	207,855.9170
Easting (M)	371,628.1020
Elevation (M)*	
Northing (SFT)	681,940.6210
Easting (SFT)	1,219,249.8646
Elevation (SFT)*	
Convergence Angle	0 11 0.9156983
Scale Factor	0.999994796
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 12 23.1393528
Longitude	92 18 55.7908380
Ellipsoid Height (M):	0.000
Geoid Height (M):	-28.260

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS IN THE OZARK NATIONAL FOREST ON THE SUMMIT OF MATNEY KNOB ABOUT 2 MILES WEST-SOUTHWEST OF NORFORK AND 48 FEET EAST OF THE NORTHEAST CORNER OF A HOUSE. TO REACH THE STATION FROM THE RAILROAD STATION IN NORFORK, GO WEST ON STATE HIGHWAY 5 FOR 0.2 MILE TO A SIDE ROAD ON THE LEFT, TURN LEFT AND GO 0.3 MILE TO THE FERRY, CROSS FERRY AND FOLLOW THE MAIN GRAVELED ROAD FOR 2.1 MILES TO A SIDE ROAD ON THE RIGHT, TURN RIGHT AND GO 0.5 MILE TO THE MATNEY LOOKOUT TOWER AND STATION. THE STATION MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED MATNEY 1953. REFERENCE MARK 1 IS 20 FEET WEST OF A WIRE FENCE. THE MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED MATNEY NO 1 1953. REFERENCE MARK 2 IS 20 FEET NORTHEAST OF THE NORTHWEST CORNER OF THE HOUSE. THE MARK IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED MATNEY NO 2 1953. A TRAVERSE WAS MADE TO MATNEY KNOB (USED). IT IS A STANDARD U.S. ENGINEER DEPARTMENT DISK SET IN THE TOP OF AN 8 X 8 INCH CONCRETE POST WHICH PROJECTS 3 INCHES. THE DISK IS STAMPED MATNEY KNOB 1940. A TRAVERSE WAS MADE AT GROUND LEVEL TO THE CENTER OF MATNEY KNOB LOOKOUT TOWER. NO SUITABLE

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	MATNEY RM 1	63 55 00	18.62	61.1
MK # 2	MATNEY KNOB	238 34 00	21.86	71.7
MK # 3	MATNEY LOOKOUT TOWER	239 44 00	20.00	65.6

AZ Mark Station	RWA VALLEY
Geodetic Azimuth	270 56 58.8
Grid Azimuth	271 07 59.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
EY LOOKOUT T(	1/1/1953	NGS	BAXTER	341	009813

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,845.8930	
Easting (M)	371,610.7990	
Elevation (M)*		
Northing (SFT)	681,907.7340	
Easting (SFT)	1,219,193.0964	
Elevation (SFT)*		

Convergence Angle	0	11	1.3180159
Scale Factor	0.999994778		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	36	12	22.8123432	
Longitude	92	18	56.4822252	
Ellipsoid Height (M):	0.000			
Geoid Height (M):	-28.260			

Location Description

THE STATION IS ON THE SUMMIT OF MATNEY KNOB ABOUT 2 MILES WEST-SOUTHWEST OF NORFORK. IT IS A FOUR LEGGED STEEL STRUCTURE ABOUT 100 FEET IN HEIGHT PAINTED ALUMINUM. THE POINT INTERSECTED WAS THE CENTER OF THE TOWER TO WHICH A TRAVERSE WAS MADE, THE DISTANCE WAS FOUND TO BE 65.60 FEET AND 19.996 METERS SOUTHEASTOF TRIANGULATION STATION MATNEY.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MENAPORT	1/1/1990	NGS	POLK	8	040352

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	610,835.2659	
Easting (M)	197,403.5300	
Elevation (M)*	322.600	
Northing (SFT)	2,004,048.7015	
Easting (SFT)	647,648.0813	
Elevation (SFT)*	1,058.397	

Convergence Angle	-1	14	7.8561640
Scale Factor			0.999958521
Elevation Adjust. Factor			0.9999493761
Combined Adjust. Factor			0.9999078992

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	32	52.2814884
Longitude	94	12	26.9897724
Ellipsoid Height (M):	292.750		
Geoid Height (M):	-29.840		

Location Description

STATION IS LOCATED ABOUT 11.1 KM (6.9 MI) EAST OF POTTER, 9.4 KM (5.8 MI) SOUTHWEST OF INK, AND 4.5 KM (2.8 MI) SOUTHEAST OF MENA. AT THE MENA INTERMOUNTAIN REGIONAL AIRPORT. OWNERSHIP--CITY OF MENA, P.O. BOX 898, MENA AR 71953. NO AIRPORT MANAGER. CONTACT GARY WILLIAMS, FBO, P.O.BOX 1413, MENA AR 71953. PHONE IS 501-394-5800 OR HOME 501-394-3000. AND JIM MONTGOMERY, AIRPORT COMMISSION. PHONE IS 501-394-2536. TO REACH FROM THE JUNCTION OF U.S.HIGHWAYS 59, 71 AND STATE HIGHWAY 8 IN NORTHEAST MENA, GO SOUTHERLY ON STATE HIGHWAY 8 FOR 3.91 KM (2.43 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO SOUTHWEST ON COUNTY ROAD 980 FOR 0.68 KM (0.42 MI) TO A T-JUNCTION. TURN RIGHT AND GO NORTH ON A PAVED ROAD FOR 0.14 KM (0.09 MI) TO A TAXIWAY. TURN LEFT AND GO SOUTH ON A TAXIWAY FOR 0.16 KM (0.10 MI) TO TAXIWAY AND THE STATION ON THE RIGHT. AIRPORT OFFICE IS WEST AND ACROSS THE RUNWAY FROM THE STATION. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH LOGO CAP, SET 40.0 M (131.2 FT) EAST-NORTHEAST OF THE RUNWAY CENTERLINE, 21.0 M (68.9 FT) WEST-SOUTHWEST OF THE CENTER OF THE TAXIWAY, AND 20.0 M (65.6 FT) SOUTH-

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	NAPORT AZ MK (EK1036)
Geodetic Azimuth	353 06 04.9
Grid Azimuth	354 2012.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ENAPORT AZ M	1/1/1990	NGS	POLK	8	040352

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	611,649.8759	
Easting (M)	197,322.7500	
Elevation (M)*	316.480	
Northing (SFT)	2,006,721.3012	
Easting (SFT)	647,383.0556	
Elevation (SFT)*	1,038.318	

Convergence Angle	-1	14	10.0148589
Scale Factor			0.999959673
Elevation Adjust. Factor			0.9999503364
Combined Adjust. Factor			0.9999100114

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	18.6557652
Longitude	94	12	30.8467152
Ellipsoid Height (M):	286.600		
Geoid Height (M):	-29.880		

Location Description

THE STATION IS LOCATED ABOUT 11 KM (6.85 MI) EAST OF POTTER, 4.74 KM (2.95 MI) SOUTHEAST OF MENA, AT THE MENA INTERMOUNTAIN REGIONAL AIRPORT, NEAR THE NORTH END OF THE AIRFIELD, JUST SOUTH OF THE RUNUP RAMP FOR RUNWAY END 17, BETWEEN THE RUNWAY AND PARALLEL TAXI. OWNERSHIP--CITY OF MENA, PO BOX 898, MENA AR 71953. NO AIRPORT MANAGER. FBO IS GARY WILLIAMS, PO BOX 1413, MENA AR 71953, PHONE 501-394-5800, 394-3000 (HOME). TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 59 AND 71, AND STATE HIGHWAY 8 IN NORTHEAST MENA, GO SOUTHEASTERLY ON HIGHWAY 8 FOR 3.94 KM (2.45 MI) TO A PAVED ROAD RIGHT, COUNTY ROAD 980. TURN RIGHT, SOUTHEAST, THEN SOUTH ON COUNTY ROAD 980 FOR 0.69 KM (0.40 MI) TO A CROSSROAD, AIRPORT LANE. TURN RIGHT, WEST ON THE ROAD FOR 0.14 KM (0.10 MI) TO A TAXIWAY. TURN RIGHT, NORTH ALONG THE TAXIWAY FOR 0.69 KM (0.40 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A GREASE FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 3 CM BELOW THE GROUND. IT IS 35.8 M (117.5 FT) EAST-NORTHEAST OF THE RUNWAY CENTER, 25.4 M (83.3 FT) WEST-SOUTHWEST OF THE

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	MENAPORT (EK1035)
Geodetic Azimuth	173 06 02.7
Grid Azimuth	174 20 12.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MO 162	9/1/1997	MoDOT	GREENE	412	100451

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	191,515.4519
Easting (M)	548,543.1580
Elevation (M)*	
Northing (SFT)	628,330.2784
Easting (SFT)	1,799,678.6775
Elevation (SFT)*	

Convergence Angle	0	57	33.5878467
Scale Factor	0.999968666		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	2	54.1109796
Longitude	90	21	4.9716072
Ellipsoid Height (M):	47.536		
Geoid Height (M):	-28.183		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO EAST ON U.S HIGHWAY 412 FOR 0.56 KM (0.35 MI) TO THE STATION ON THE LEFT. THE STATION IS 22.47 METERS SOUTHWEST OF A POWER POLE, 17.51 METERS EAST OF A POWER POLE AND 12.10 METER NORTH OF NORTH EDGE OF CONCRETE OF U.S. HIGHWAY 412. THE STATION MARK IS A COPPERWELD 0.61 METERS LONG STAMPED "162" SET IN CONCRETE 0.15 METERS BELOW THE GROUND SURFACE. THE SHOT DISTANCE IS 439.320 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	MO 163
Geodetic Azimuth	122 38 39.13596
Grid Azimuth	121 41 05.59659

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	KENNPORT
Ref Mon # 3	MANIPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MO 163	9/1/1997	MoDOT	GREENE	412	100451

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	191,284.7100
Easting (M)	548,916.9810
Elevation (M)*	
Northing (SFT)	627,573.2527
Easting (SFT)	1,800,905.1285
Elevation (SFT)*	
Convergence Angle	0 57 42.1874599
Scale Factor	0.999968365
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	36 2 46.4222472
Longitude	90 20 50.1930780
Ellipsoid Height (M):	48.028
Geoid Height (M):	-28.183

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412 AND STATE HIGHWAY 139 NORTH, LOCATED ABOUT 11.27 KM (7.00 MI) EAST OF PARAGOULD, GO EAST ON U.S. HIGHWAY 412 FOR 1.00 KM (0.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 9.35 METERS SOUTH OF THE SOUTH EDGE OF CONCRETE OF U.S. HIGHWAY 412. THE STATION MARK IS A COPPERWELD 0.61 METERS LONG STAMPED "163" SET IN CONCRETE 0.15 METERS BELOW THE GROUND SURFACE. THE SHOT DISTANCE IS 439.320 METERS.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	LITER SIGN POST	30	19.95	65.5
MK # 2	POWER POLE	135	31.85	104.5
MK # 3	NONE			

AZ Mark Station	MO 162
Geodetic Azimuth	302 38 47.83244
Grid Azimuth	301 41 05.59659

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD PAR 1
Ref Mon # 2	KENNPORT
Ref Mon # 3	MANIPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MO 166	3/17/2000	MoDOT	GREENE	164	100451

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	190,668.1820	
Easting (M)	553,792.6960	
Elevation (M)*		
Northing (SFT)	625,550.5271	
Easting (SFT)	1,816,901.5368	
Elevation (SFT)*		

Convergence Angle	0	59	35.2727281
Scale Factor	0.999967485		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	2	23.7232284
Longitude	90	17	35.8548108
Ellipsoid Height (M):	46.306		
Geoid Height (M):	-28.190		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, MISSOURI STATE HIGHWAY 164 AND COUNTY ROAD F, LOCATED ABOUT 4.83 KM (3.00 MI) EAST OF THE ARKANSAS-MISSOURI STATE LINE, GO NORTH ON STATE HIGHWAY 164 FOR 0.08 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.55 METERS WEST OF THE CENTER OF STATE HIGHWAY 164. THE STATION MARK IS COPPERWELD 0.61 METERS LONG STAMPED "166" SET IN CONCRETE 0.15 METERS BELOW THE GROUND SURFACE. THE SHOT DISTANCE IS 526.917 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	192	5.00	16.4
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	MO 166A
Geodetic Azimuth	258 48 37.29821
Grid Azimuth	257 49 01.95894

Area Reference Monuments (used for Processing)

Ref Mon # 1	280003
Ref Mon # 2	KENNPORT
Ref Mon # 3	MANIPORT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MO 166A	3/17/2000	AHTD	GREENE	412	100451

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	190,556.9909
Easting (M)	553,277.6690
Elevation (M)*	
Northing (SFT)	625,185.7276
Easting (SFT)	1,815,211.8190
Elevation (SFT)*	

Convergence Angle	0	59	23.2574499
Scale Factor	0.999967358		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	36	2	20.4052884
Longitude	90	17	56.5031976
Ellipsoid Height (M):	46.476		
Geoid Height (M):	-28.189		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 412, MISSOURI STATE HIGHWAY 164 AND COUNTY ROAD F, LOCATED ABOUT 4.83 KM (3.00 MI) EAST OF THE ARKANSAS-MISSOURI STATE LINE, GO WEST ON U.S. HIGWAY 412 FOR 0.48 KM (0.30 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.75 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 12.40 METERS WEST OF A FIELD ENTRANCE AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "MO 166A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 526.917 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	WEST END CMP	55	8.20	26.9
MK # 2	POWER POLE	260	13.64	44.8
MK # 3	NONE			

AZ Mark Station	MO 166
Geodetic Azimuth	78 48 25.149886
Grid Azimuth	77 49 01.958943

Area Reference Monuments (used for Processing)

Ref Mon # 1	280003
Ref Mon # 2	KENNPORT
Ref Mon # 3	MANIPORT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MO TARGET F	1/22/2001	MODOT	DONALD CO. M	N/A	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	244,238.1335	
Easting (M)	185,739.1761	
Elevation (M)*	308.122	
Northing (SFT)	801,304.6097	
Easting (SFT)	609,379.2803	
Elevation (SFT)*	1,010.898	

Convergence Angle	-1	23	30.7718581
Scale Factor	1.000066768		
Elevation Adjust. Factor	0.9999516479		
Combined Adjust. Factor	1.0000184127		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	30	40.4757324
Longitude	94	23	31.0661052
Ellipsoid Height (M):	280.063		
Geoid Height (M):	-28.260		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF GLASGOW ROAD (OLD COUNTY ROAD 472) AND EDINBURGH ROAD, LOCATED ON THE NORTHWEST SIDE OF BELLA VISTA, GO WEST ON EDINBURGH ROAD FOR 2.35 KM (1.40 MI) TO THE END OF PAVEMENT, COUNTINE WEST ON EDINBURG ROAD FOR 2.17 KM (1.35 MI) TO THE JUNCTION OF A GRAVELED ENTRANCE TO A PASTURE ON THE RIGHT, TURN RIGHT NORTHWEST AND PASS THRU A LOCKED GATE FOR 0.31 KM (0.20 MI) TO A "Y" JUNCTION GO LEFT, CONTINUE NORTHWEST FOR 1.13 KM (0.70 MI) TO FIELD ROAD ON THE RIGHT, GO RIGHT NORTEAST PASSING THRU A CREEK FOR 0.24 KM (0.15 MI) TO THE STATION. THE STATION IS 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A 5/8" REBAR WITH A PUNCH MARK SET IN CONCRETE ABOUT 0.15 METERS BELOW THE LEVEL OF THE GROUND. THE SHOT DISTANCE IS 397.543 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NAIL IN SHINNER 24" OAK	17		
MK # 2	NAIL IN SHINNER CROSS TIE GATE POST	105		
MK # 3				

AZ Mark Station	MO TARGET G
Geodetic Azimuth	59 33 58.109324
Grid Azimuth	60 57 28.971337

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MO TARGET G	1/22/2001	MODOT	DONALD CO. M	N/A	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	244,431.1263	
Easting (M)	186,086.7438	
Elevation (M)*	314.412	
Northing (SFT)	801,937.7869	
Easting (SFT)	610,519.5920	
Elevation (SFT)*	1,031.533	

Convergence Angle	-1	23	22.7561660
Scale Factor	1.000067282		
Elevation Adjust. Factor	0.9999506610		
Combined Adjust. Factor	1.0000179396		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	30	47.0081232
Longitude	94	23	17.2910508
Ellipsoid Height (M):	286.363		
Geoid Height (M):	-28.261		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF GLASGOW ROAD (OLD COUNTY ROAD 472) AND EDINBURGH ROAD, LOCATED ON THE NORTHWEST SIDE OF BELLA VISTA, GO WEST ON EDINBURGH ROAD FOR 2.35 KM (1.40 MI) TO THE END OF PAVEMENT, COUNTINE WEST ON EDINBURG ROAD FOR 2.17 KM (1.35 MI) TO THE JUNCTION OF A GRAVELED ENTRANCE TO A PASTURE ON THE RIGHT, TURN RIGHT NORTHWEST AND PASS THRU A LOCKED GATE FOR 0.31 KM (0.20 MI) TO A "Y" JUNCTION GO LEFT, CONTINUE NORTHWEST FOR 1.13 KM (0.70 MI) TO FIELD ROAD ON THE RIGHT, GO RIGHT NORTEAST PASSING THRU A CREEK FOR 0.24 KM (0.15 MI) TO A WIRE GATE, GO THUR THE GATE AND CONTINUE NORHTEAST FOR .40KM (0.25 MI) TO THE STATION. THE STATION IS 5.70 METERS SOUTHEAST OF A FIELD ROAD AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A 5/8" REBAR WITH A PUNCH MARK SET IN CONCRETE ABOUT 0.15 METERS BELOW THE LEVEL OF THE GROUND. THE SHOT DISTANCE IS 397.543 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NAIL IN SHINNER IN 6" HACKBERRY TREE	92		
MK # 2	NAIL INSHINNER IN 6" WHITE OAK	159		
MK # 3	NONE			

AZ Mark Station	MO TARGET F
Geodetic Azimuth	239 34 06.30539
Grid Azimuth	240 57 28.97134

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MORO	1/1/1965	USC&GS	LEE	79	R10087

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	49,553.8550	
Easting (M)	494,548.1070	
Elevation (M)*	61.776	
Northing (SFT)	162,577.9393	
Easting (SFT)	1,622,529.9144	
Elevation (SFT)*	202.675	

Convergence Angle	0	36	3.7162910
Scale Factor	1.000034773		
Elevation Adjust. Factor	0.9999903055		
Combined Adjust. Factor	1.0000250782		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	46	31.8806940
Longitude	90	58	1.6299480
Ellipsoid Height (M):	35.145		
Geoid Height (M):	-26.624		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 78 LOCATED ABOUT 17.70 KM (11.00 MI) WEST OF MARIANNA, GO WEST ON U.S. HIGHWAY 79 FOR 0.064 KM (0.04 MI) TO THE STATION ON THE LEFT. THE STATION IS 18.20 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 79 AND 0.50 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD NGS DISKS STAMPED "MORO 1965" SET IN A ROUND CONCRETE MONUMENT WHICH PROJECTS 6 INCHES. THE SHOT DISTANCE IS 434.448 METERS. ELEVATION WAS ARRIVED AT ON THIS STATION BY 3 WIRE LEVEL FROM NGS BENCH MARK P 176 RUN BY CREW S5102.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MORO RM 1	90	30.37	99.6
MK # 2	MORO RM 2	270	29.03	95.2
MK # 3				

AZ Mark Station	390004
Geodetic Azimuth	323 48 29
Grid Azimuth	323 12 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	540002
Ref Mon # 3	480005

Comments

Original elevation was 202.6538. Elevation updated by crew S5102n in May 2016 using three wire from NGS benchmark M 176 and P 176.

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
MOSS	1/1/1986	LaDOT	LA / WEBSTER	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	436,501.9064	0.1800
Easting (M)	268,147.3567	0.1600
Elevation (M)*	63.289	
Northing (SFT)	1,432,090.0046	
Easting (SFT)	879,746.7861	
Elevation (SFT)*	207.641	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	32	59	15.2473920	
Longitude	93	24	38.2432680	
Ellipsoid Height (M):	37.071			0.5400
Geoid Height (M):	-26.270			

Convergence Angle	0	47	22.2454626
Scale Factor	1.000083937		
Elevation Adjust. Factor	0.9999900680		
Combined Adjust. Factor	1.0000740042		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

THE STATION IS LOCATED ABOUT 30 MI (48.3 KM) NORTHEAST OF SHREVEPORT, 20 MI (32.2 KM) NORTHWEST OF HOMER, 3 MI (4.8 KM) SOUTHEAST OF SPRINGHILL, AT THE SPRINGHILL AIRPORT, NEAR THE NORTH END OF THE PARALLEL TAXIWAY (OLD RUNWAY). OWNERSHIP--CITY OF SPRINGHILL, CITY HALL, 101 MACHEN DRIVE, SPRINGHILL LA 71075. AIRPORT MANAGER IS S.C. MOSS, PHONE 318-539-4568. CONTACT HIM PRIOR TO OBSERVATIONS. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 371 AND STATE HIGHWAY 157 IN SPRINGHILL, GO EAST FOR 3.5 MI (5.6 KM) ON HIGHWAY 157 TO PARISH ROAD 210 (SPRINGHILL AIRPORT ROAD) ON THE RIGHT. TURN RIGHT AND GO SOUTH, THEN SOUTHEAST FOR 0.3 MI (0.5 KM) ON PARISH ROAD 210 TO PARISH ROAD 210A (AIRPORT LOOP ROAD) ON THE LEFT. TURN LEFT AND GO EAST-NORTHEAST FOR 0.05 MI (0.08 KM) ON PARISH ROAD 210A TO THE AIRPORT ACCESS ROAD ON RIGHT. TURN RIGHT AND GO SOUTHEAST, THEN SOUTH FOR 0.2 MI (0.3 KM) ON THE ACCESS ROAD TO THE AIRPORT OFFICE ON LEFT. CONTINUE SOUTH FOR 0.05 MI (0.08 KM) ON APRON AND WEST ON RAMP TO THE JUNCTION WITH NORTH END OF PARALLEL TAXIWAY AND THE STATION ON LEFT. LOCATED 441.7 FT (134.6 M) WEST FROM THE CENTERLINE OF RUNWAY, 77.0 FT (23.5 M) SOUTH FROM THE CENTERLINE OF

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Position is from NGS datasheet

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
N 209	1/1/1962	NGS	CONWAY	124	080382

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,829.2991	
Easting (M)	354,705.3780	
Elevation (M)*	111.648	
Northing (SFT)	357,050.7921	
Easting (SFT)	1,163,729.2277	
Elevation (SFT)*	366.300	

Convergence Angle	0	17	23.4509372
Scale Factor	0.999947056		
Elevation Adjust. Factor	0.9999824790		
Combined Adjust. Factor	0.9999295360		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	47.7491292
Longitude	92	29	53.1818196
Ellipsoid Height (M):	83.609		
Geoid Height (M):	-28.039		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 124 AND STATE HIGHWAY 285, SOUTHWEST OF DAMASCUS, GO WEST ON 124 FOR 2.75 MILES TO THE STATION MARK ON THE LEFT, 8.5 FEET NORTHWEST OF A 4 STRAN BARBWIRE FENCE, SOUTHEAST 32.0 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTHWEST 2.0 FEET OF A WITNESS POST. THE STATION MARK IS A STANDARD BENCH MARK DISK STAMPED "N 209 1962" SET IN A CONCRETE POST PROJECTING 1.0 FOOT ABOVE THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	150006
Geodetic Azimuth	23 14 44
Grid Azimuth	23 32 08

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARFY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
N 314	1/2/1990	NOAA	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	133,665.4611	
Easting (M)	540,603.2918	
Elevation (M)*	65.405	
Northing (SFT)	438,534.1003	
Easting (SFT)	1,773,629.2998	
Elevation (SFT)*	214.583	

Convergence Angle	0	54	7.8431657
Scale Factor	0.999936412		
Elevation Adjust. Factor	0.9999897359		
Combined Adjust. Factor	0.9999261486		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	31	41.4659064
Longitude	90	26	58.5460860
Ellipsoid Height (M):	37.817		
Geoid Height (M):	-27.588		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 3.57 KM (2.22 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.80 METERS NORTH OF THE CENTER OF THE NORTHBOUND LANE OF U. S. HIGHWAY 63, 0.30 METERS EAST OF A FIBERGLASS WITNESS POST AND 0.50 METERS SOUTH OF AN AHTD WITNESS POST. THE STATION MARK IS A STANILESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGO CAP STAMPED "N 314 1990". THE SHOT DISTANCE IS 508.870.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	COMBINATION POLE	105	1.80	5.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	N 314A
Geodetic Azimuth	94 01 23.13402
Grid Azimuth	93 07 15.28282

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
N 314A	10/2/2000	AHTD	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	133,637.7585	
Easting (M)	541,111.3717	
Elevation (M)*	65.773	
Northing (SFT)	438,443.2127	
Easting (SFT)	1,775,296.2253	
Elevation (SFT)*	215.790	

Convergence Angle	0	54	19.5674146
Scale Factor	0.999936417		
Elevation Adjust. Factor	0.9999896782		
Combined Adjust. Factor	0.9999260958		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	31	40.3070376
Longitude	90	26	38.3978364
Ellipsoid Height (M):	38.165		
Geoid Height (M):	-27.589		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 3.00 KM (1.87 MI) TO THE STATION ON THE LEFT SET IN THEN MEDIAN. THE STATION IS 10.15 METERS SOUTH OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.55 METERS NORTH OF THE CENTER OF THE SOUTHBOUND LAND OF U.S. HIGHWAY 63 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "N 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK N 314. THE SHOT DISTANCE IS 508.870 METERS.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	N 314
Geodetic Azimuth	274 01 34.84219
Grid Azimuth	273 07 15.28282

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
N 34 RESET	1/2/1987	USC&GS	BENTON	72	009969

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	234,938.5236	
Easting (M)	186,540.4970	
Elevation (M)*	399.647	
Northing (SFT)	770,794.1395	
Easting (SFT)	612,008.2806	
Elevation (SFT)*	1,311.174	

Convergence Angle	-1	23	6.7822451
Scale Factor	1.000044195		
Elevation Adjust. Factor	0.9999372864		
Combined Adjust. Factor	0.9999814786		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	39.5142312
Longitude	94	22	49.8396936
Ellipsoid Height (M):	371.729		
Geoid Height (M):	-28.071		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 AND STATE HIGHWAY 279 NORTH, LOCATED ON EAST SIDE OF HIWASSE, GO WEST ON STATE HIGHWAY 72 FOR 5.01 KM (3.11 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.63 METERS SOUTHWEST OF THE CENTER OF STATE HIGHWAY 72 AND 0.28 METERS NORTHWEST OF A WITNESS POST. THE STATION IS A N.G.S. DISK STAMPED "N 34 RESET 1987" SET IN A SQUARE CONCRETE MONUMENT. THE SHOT DISTANCE IS 502.558. ELEVATION ON THIS STATION WAS RUN BY N.G.S.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	CORNER POST	86	1.23	4.0
MK # 2	MOST WESTERLY BRACE POST	231	3.45	11.3
MK # 3	NONE			

AZ Mark Station	040030
Geodetic Azimuth	57 24 14.874521
Grid Azimuth	58 47 21.758062

Area Reference Monuments (used for Processing)

Ref Mon # 1	V 26
Ref Mon # 2	CASSPORT
Ref Mon # 3	FLINT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
N 37	1/1/1934	CGS	MARION	62	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,164.2540	
Easting (M)	336,470.0780	
Elevation (M)*	252.129	
Northing (SFT)	696,075.5567	
Easting (SFT)	1,103,902.2476	
Elevation (SFT)*	827.193	

Convergence Angle	0	24	40.6124347
Scale Factor	1.000002051		
Elevation Adjust. Factor	0.9999604343		
Combined Adjust. Factor	0.9999624852		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	36.9928968
Longitude	92	42	24.4486224
Ellipsoid Height (M):	223.760		
Geoid Height (M):	-28.390		

Location Description

THE STATION IS LOCATED ABOUT 12 KM (7.45 MI) EAST OF PYATT, 10 KM (6.20 MI) SOUTHWEST OF FLIPPIN, 3 KM (1.85 MI) NORTHWEST OF YELLVILLE, IN THE NORTH QUADRANT OF THE JUNCTION OF THE HIGHWAY AND A RAILROAD TRACK. OWNERSHIP--MISSOURI PACIFIC RAILROAD. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 14 IN THE CENTER OF YELLVILLE, GO NORTHWEST ON HIGHWAY 62 FOR 2.98 KM (1.85 MI) TO THE STATION ON THE RIGHT JUST AFTER CROSSING THE RAILROAD TRACKS. THE STATION IS SET IN THE TOP OF A 15 CM SQUARE CONCRETE POST PROJECTING 25 CM ABOVE GROUND. IT IS 51.3 M (168.3 FT) EAST-NORTHEAST OF THE CENTER OF THE JUNCTION OF THE HIGHWAY AND THE RAILROAD TRACKS, 16.7 M (54.8 FT) NORTHEAST OF THE NORTHEAST CORNER OF A METAL RAILROAD JUNCTION BOX, 5.9 M (19.4 FT) NORTH-NORTHWEST OF THE NORTHWEST RAIL OF THE TRACKS AND 0.4 M (1.3 FT) SOUTH-SOUTHEAST OF A STEEL WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
N 42	1/1/1935	NGS	NDEPENDENCI	25	050175

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	153,528.5740	
Easting (M)	422,551.6770	
Elevation (M)*	121.223	
Northing (SFT)	503,701.6632	
Easting (SFT)	1,386,321.6270	
Elevation (SFT)*	397.712	

Convergence Angle	0	8	42.1323373
Scale Factor	0.999938608		
Elevation Adjust. Factor	0.9999809765		
Combined Adjust. Factor	0.9999195857		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	43	0.9884640
Longitude	91	45	2.7098820
Ellipsoid Height (M):	93.831		
Geoid Height (M):	-27.392		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 14 AND STATE HIGHWAY 25, SOUTHWEST OF BATESVILLE, GO SOUTH ON HIGHWAY 25 FOR 0.41 MILES TO THE STATIOJN MARK ON THE RIGHT, 39.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY AND 24.0 FEET WEST O

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	HEBEPORT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
N 48	1/1/1934	NGS	VAN BUREN	16	050228

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	139,796.8380	
Easting (M)	358,541.6550	
Elevation (M)*	154.833	
Northing (SFT)	458,650.1260	
Easting (SFT)	1,176,315.4131	
Elevation (SFT)*	507.981	

Convergence Angle	0	15	58.3907757	
Scale Factor	0.999935946			
Elevation Adjust. Factor	0.9999757022			
Combined Adjust. Factor	0.9999116498			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	35	33.2174148	
Longitude	92	27	27.0050040	
Ellipsoid Height (M):	126.988			
Geoid Height (M):	-27.845			

Location Description

THE STATION IS LOCATED IN THE CENTER OF THE CLINTON BUSINESS DISTRICT SOUTHWEST AND ACROSS THE STREET FROM THE COURT HOUSE BUILDING ON THE'WEST SIDE OF A POWER POLE AT THE SOUTHEAST CORNER OF THE JUNCTION OF COURT STREET AND A STREET ON THE SOUTH SIDE OF THE COURT HOUSE. TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 65 AND STATE 'HIGHWAY 16 WEST ON THE NORTH SIDE OF CLINTON, GO SOUTH ON HIGHWAY 65 FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF HIGHWAY 65-B, BEAR RIGHT,SOUTHERLY ON HIGHWAY 65-B FOR 1.05 KM (0.65 MI) TO THE JUNCTION OF MAIN STREET ON THE LEFT, TURN LEFT, EAST ON MAIN STREET FOR 0.16 KM (0.10 MI) TO THE JUNCTION OF COURT STREET, TURN RIGHT, SOUTH ON COURT STREET FOR 0.05 KM (0.05 MI) TO THE JUNCTION OF A PAVED STREET ON THE SOUTH SIDE OF THE COURT HOUSE, AND THE STATION ON THE LEFT AT THESOUTHEAST CORNER OF THE OF THE JUNCTION OF COURT STREET AND THE STREET ON THE SOUTH SIDE OF THE COURT HOUSE, DIRECTLY SOUTHWEST AND ACROSSTHE STREET FROM THE COURT HOUSE FLAG POLE. THE STATION IS A CGS BENCH MARK DISK SET IN THE TOP OF A 15 CM SQUARE CONCRETE POST PROJECTING ABOUT 15 CM ABOVE THE STREET. LOCATED 18.60 M (61.02 FT) NORTHEAST AND ACROSS COURT STREET FROM THE

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
N 81	1/1/1935	USC&GS	Dallas	NA	001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	551,856.4001	
Easting (M)	351,823.5820	
Elevation (M)*	75.454	
Northing (SFT)	1,810,548.8727	
Easting (SFT)	1,154,274.5353	
Elevation (SFT)*	247.552	

Convergence Angle	0	17	31.2323711	
Scale Factor	0.999918470			
Elevation Adjust. Factor	0.9999881589			
Combined Adjust. Factor	0.9999066299			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	2nd Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	2	4.9894296	
Longitude	92	31	18.2380980	
Ellipsoid Height (M):	49.381			
Geoid Height (M):	-26.073			

Location Description

The station is about 3.4 miles south of Carthage along the railroad track. 140 feet southeast of a railroad bridge, 72.5 feet southeast of the center of a railroad crossing, 47.7 feet east of the center of the railroad trackand 40.8 feet west of the center of a county road. The station mark is a cap stamped "N 81 1935" set in top of a concrete post.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	None
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM, 1ULM,S 197,K 124
Ref Mon # 2	700014,270005 070003,0700
Ref Mon # 3	T 83 N 81 070005 LROC UAM

Comments

This station is a NGS 2nd order bench mark.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
NEWSPORT	1/1/1990	NGS	JACKSON	18	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	145,511.6130	
Easting (M)	474,540.2320	
Elevation (M)*	72.460	
Northing (SFT)	477,399.3503	
Easting (SFT)	1,556,887.4112	
Elevation (SFT)*	237.729	

Convergence Angle	0	28	44.2199302
Scale Factor			0.999936444
Elevation Adjust. Factor			0.9999886288
Combined Adjust. Factor			0.9999250735

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	38	31.6695336
Longitude	91	10	36.9092388
Ellipsoid Height (M):	44.950		
Geoid Height (M):	-27.490		

Location Description

THE STATION IS LOCATED ABOUT 10 KM (6.20 MI) SOUTH-SOUTHEAST OF TUCKERMAN, 8 KM (4.95 MI) NORTHEAST OF NEWPORT, AT THE MUNICIPAL AIRPORT, NEAR MIDFIELD, ACROSS THE APRON FROM THE AIRPORT OFFICE, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF THE APRON AND A CONNECTOR TAXIWAY TO THE RUNWAY. OWNERSHIP--CITY OF NEWPORT, PO BOX 666, NEWPORT AR 72112. AIRPORT MANAGER IS DORSEY BLOCK, PHONE 501-523-3613 OR 523-9628. HOME PHONE IS 579-2351. FIRE STATION PHONE AT THE AIRFIELD IS 523-6099. CALL AHEAD FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 18 ON THE NORTH SIDE OF NEWPORT, GO EAST ON HIGHWAYS 67 AND 18 FOR 1.13 KM (0.70 MI) TO THE JUNCTION OF HIGHWAY 67 SOUTH ON THE RIGHT. CONTINUE AHEAD, EAST ON HIGHWAY 18 FOR 1.53 KM (0.95 MI) TO WHERE HIGHWAY 18 TURNS NORTH. CONTINUE AHEAD, EAST ON COUNTY HIGHWAY 980 FOR 2.21 KM (1.35 MI) TO THE JUNCTION OF HIGHWAY 18S ON THE LEFT. CONTINUE AHEAD, EAST ON COUNTY HIGHWAY 980 FOR 0.90 KM (0.55 MI) TO A PAVED Y-JUNCTION. TURN LEFT, NORTHEAST ON VICTORY BOULEVARD FOR 0.64 KM (0.40 MI) TO A GATE AT THE APRON AND THE AIRPORT OFFICE AND FIRE STATION ON THE RIGHT.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	WSPORT AZ MK (FF2152)
Geodetic Azimuth	180 56 09.0
Grid Azimuth	187 27 24.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
NO. 3	5/28/1991	AHTD	PULASKI	388	OFFICE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	37,588.8369	
Easting (M)	365,062.3910	
Elevation (M)*		
Northing (SFT)	123,322.7091	
Easting (SFT)	1,197,708.8611	
Elevation (SFT)*		

Convergence Angle	0	13	18.5061251
Scale Factor	1.000061773		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	40	17.5167948	
Longitude	92	22	52.2414876	
Ellipsoid Height (M):				
Geoid Height (M):				

Location Description

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
NO. 4	5/28/1991	AHTD	PULASKI	388	OFFICE

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	37,457.2578	
Easting (M)	364,916.1980	
Elevation (M)*	94.428	
Northing (SFT)	122,891.0200	
Easting (SFT)	1,197,229.2263	
Elevation (SFT)*	309.803	

Convergence Angle	0	13	21.8356714
Scale Factor			1.000062101
Elevation Adjust. Factor			0.9999851814
Combined Adjust. Factor			1.0000472815

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	34	40	13.2287412	
Longitude	92	22	57.9633492	
Ellipsoid Height (M):				
Geoid Height (M):				

Location Description

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	NONE
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
O 2	1/1/1928	AHTD	LAWRENCE	412/63	100686

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	194,812.8339	
Easting (M)	484,307.1310	
Elevation (M)*	80.452	
Northing (SFT)	639,148.4392	
Easting (SFT)	1,588,930.9790	
Elevation (SFT)*	263.950	

Convergence Angle	0	32	40.9708048
Scale Factor	0.999974146		
Elevation Adjust. Factor	0.9999873746		
Combined Adjust. Factor	0.9999615209		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	5	8.4401952
Longitude	91	3	50.0502780
Ellipsoid Height (M):	52.459		
Geoid Height (M):	-27.992		

Location Description

'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992'0.4 KM (0.25 MI) SOUTHERLY ALONG U.S. HIGHWAY 63 FROM THE POST OFFICE IN POSTIA, IN TOP OF AND 0.3 M (1.0 FT) NORTHWEST OF THE SOUTHEAST END OF THE SOUTHWEST CONCRETE HEADWALL OF A CULVERT UNDER THEBURLINGTON NORTHERN RAILROAD, 37.3 M (122.4 FT) NORTHEAST OF THE HIGHWAY CENTERLINE, 7.3 M (24.0 FT) SOUTHEAST OF THE CENTER OF A PAVED ROAD, 5.1 M (16.7 FT) SOUTHWEST OF THE NEAR RAIL, AND 0.6 M (2.0 FT) BELOW THE LEVEL OF THE TRACK.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	380010
Geodetic Azimuth	183 05 36
Grid Azimuth	182 32 55

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT, ARPG
Ref Mon # 2	B 316, 380008
Ref Mon # 3	O 2,

Comments

NGS 1ST ORDER BENCHMARK

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
OK 1	11/30/1998	AHTD	BENTON	412	090024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	207,444.3540	
Easting (M)	169,177.2040	
Elevation (M)*	351.869	
Northing (SFT)	680,590.3514	
Easting (SFT)	555,042.2101	
Elevation (SFT)*	1,154.424	

Convergence Angle	-1	29	35.5058417
Scale Factor	0.999989176		
Elevation Adjust. Factor	0.9999447833		
Combined Adjust. Factor	0.9999339599		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	10	33.6733284
Longitude	94	33	57.8654352
Ellipsoid Height (M):	323.449		
Geoid Height (M):	-28.292		

Location Description

TO REACH THE STATION FROM THE ARKANSAS AND OKLAHOMA STATE LINE, LOCATED ON THE WEST SIDE OF SILOAM SPRINGS, GO WEST ON U.S. HIGHWAY 412 FOR 0.09 KM (0.06 MI) TO THE STATION ON THE LEFT. THE STATION IS 39.814 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 412, 26.187 METERS EAST OF THE CENTER OF U.S. HIGHWAY 59 AND 0.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "OK 1 1998" SET ON TOP OF AN IRON ROD 1.00 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. NOTE THE CAP WAS DAMAGED WHILE SETTING THE STATION.05/26/1999 THE POINT WAS DESTROYED BY MAINTENANCE CREWS AND IS GONE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	METAL SIGNAL LIGHT POLE	355	24.12	79.1
MK # 2	EAST END RCP	308	16.95	55.6
MK # 3	GUY POLE	193	33.15	108.7

AZ Mark Station	040022
Geodetic Azimuth	83 21 52.461280
Grid Azimuth	84 51 28.060792

Area Reference Monuments (used for Processing)

Ref Mon # 1	OLD MAIN
Ref Mon # 2	FLINT
Ref Mon # 3	V 26

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
OLD MAIN	8/19/1997	NGS	WASHINGTON	N/A	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	194,614.1249	
Easting (M)	204,534.9070	
Elevation (M)*	433.900	
Northing (SFT)	638,496.5081	
Easting (SFT)	671,044.9407	
Elevation (SFT)*	1,423.554	

Convergence Angle	-1	15	45.7867731
Scale Factor	0.999971510		
Elevation Adjust. Factor	0.9999319116		
Combined Adjust. Factor	0.9999034235		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	4	5.1102192
Longitude	94	10	11.9841636
Ellipsoid Height (M):	405.930		
Geoid Height (M):	-28.010		

Location Description

THE STATION IS LOCATED IN THE CENTER OF FAYETTEVILLE, ON THE UNIVERSITY OF ARKANSAS CAMPUS, EAST OF OLD MAIN AND OZARK HALL BUILDINGS ON THE EAST SIDE OF THE CAMPUS. TO REACH THE STATION FROM THE WASHINGTON COUNTY COURTHOUSE AT THE SOUTHEAST CORNER OF COLLEGE AVENUE AND DICKSON STREET IN FAYETTEVILLE, GO WEST ON DICKSON STREET FOR 0.6 MI (1.0 KM) TO A SIDE ROAD RIGHT, ARKANSAS AVENUE. TURN RIGHT, NORTH ON ARKANSAS AVENUE FOR 500 FT (152.4 M) TO THE STATION ON THE LEFT. THE STATION IS AN ARKANSAS HARN DISK SET IN A 13 INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED APPROXIMATELY 475 FT (144.8 M) WEST OF THE CENTERLINE OF ARKANSAS AVENUE, APPROXIMATELY 300 FT (91.4 M) WEST OF THE CENTERLINE OF RAZORBACK ROAD, 317 FEET (96.6 M) EAST OF THE NORTHEAST CORNER OF OZARK HALL, 72.1 FEET (22.0 M) NORTHEAST OF THE EAST END OF A 4 FOOT (1.2 M) BY 6 FOOT (1.8 M) METAL HATCH TO AN UNDERGROUND ELECTRICAL VAULT, 169.3 FEET (51.6 M) EAST OF A LIGHT POLE, 142.6 FEET (43.5 M) SOUTHEAST OF A LIGHT POLE AND 84 FEET (25.6 M) WEST OF A DRAINAGE SWALE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
OLVEY	1/1/1954	CGS	BOONE	62	R90095

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	207,878.0925	0.0030
Easting (M)	313,139.6631	0.0030
Elevation (M)*	363.566	
Northing (SFT)	682,013.3751	
Easting (SFT)	1,027,359.0447	
Elevation (SFT)*	1,192.799	

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid12B			
Latitude	36	12	11.5116984	
Longitude	92	57	57.1235688	
Ellipsoid Height (M):	335.197		0.0170	
Geoid Height (M):	-28.321		0.0170	

Convergence Angle	0	33	43.3351728
Scale Factor	0.999994185		
Elevation Adjust. Factor	0.9999429479		
Combined Adjust. Factor	0.9999371332		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS '62 AND 65, 4 MILES SOUTH OF HARRISON, GO EAST ON U.S. HIGHWAY 62 FOR 3.8 MILES TO A HIGH ROAD BANK ON THE RIGHT AND THE AZIMUTH MARK AS DESCRIBED BELOW, CONTINUE EASTERLY ON THE HIGHWAY FOR 0.55 MILE TO A T-ROAD LEFT AND SIGN OLVEY AND THE STATION IN THE SOUTHEAST ANGLE OF THIS INTERSECTION. THE STATION MARK PROJECTS 2 INCHES AND THE DISK IS STAMPED OLVEY 1954. REFERENCE MARK 1 IS 49 FEET SOUTH OF THE CENTER OF THE HIGHWAY, 39 FEET WEST OF A TELEPHONE POLE, AND 7 FEET NORTH OF A WIRE FENCE. THE MARK IS FLUSH WITH THE SURFACE OF THE GROUND AND THE DISK IS STAMPED OLVEY NO 1

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	ARRV
Ref Mon # 3	ARM3, MOBR

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5112 IN JULY 2019 FOR JOB #R90095 FROM NGS 1ST ORDER BM J 6

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
OR-01	2/7/1997	NGS	MO / OREGON	N/A	NA

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	229.400	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	752.623	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999640010
Combined Adjust. Factor		#Type!

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED NEAR THE SOUTH EDGE OF ALTON, MO., ALONG THE EAST SIDE OF STATE HIGHWAY 19, NORTHEAST OF THE NORTHEAST END OF A BRIDGE OVER TUCKER CREEK, JUST SOUTH OF A FIELD ENTRANCE AND GATE AND JUST WEST OF A FENCE AND WITNESS POST. OWNERSHIP--STATE OF MISSOURI. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 19 AND STATE ROUTE E NEAR THE SOUTH EDGE OF ALTON, GO NORTH, 0.32 KM (0.20 MI) ALONG HIGHWAY 19 CROSSING TUCKER CREEK TO A FIELD ENTRANCE ON THE RIGHT AND THE STATION, JUST SOUTH OF THE GATE. THE STATION IS AN ALUMINUM DNR GEOGRAPHIC REFERENCE SYSTEM SURVEY MARKER SET IN THE TOP OF A ROUND CONCRETE MONUMENT. IT IS, 28.3 M (92.8 FT) EAST OF THE HIGHWAY 19 CENTERLINE, 5.2 M (17.1 FT) SOUTH OF THE FIELD ENTRANCE CENTER, 2.8 M (9.2 FT) SOUTH OF A WITNESS POST, 1.2 M (3.9 FT) WEST OF A FENCE, AND THE MONUMENT IS ABOUT LEVEL WITH THE FIELD ENTRANCE AND FLUSH WITH THE GROUND SURFACE. BY R.G. HAYES.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
OZARPORT	1/1/1990	NGS	FRANKLIN	96	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	132,196.4990	
Easting (M)	233,231.4560	
Elevation (M)*	189.880	
Northing (SFT)	433,714.6805	
Easting (SFT)	765,193.5352	
Elevation (SFT)*	622.965	

Convergence Angle	-1	4	11.4802027
Scale Factor			0.999936751
Elevation Adjust. Factor			0.9999702025
Combined Adjust. Factor			0.9999069554

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	30	39.1958568	
Longitude	93	50	18.8107476	
Ellipsoid Height (M):	160.800			
Geoid Height (M):	-29.080			

Location Description

THE STATION IS LOCATED ABOUT 2.7 KM (1.65 MI) NORTH-NORTHWEST OF WEBB CITY, 2.2 KM (1.35 MI) NORTHWEST OF OZARK, 0.6 KM (0.35 MI) SOUTH OF INTERSTATE HIGHWAY 40, AT THE OZARK-FRANKLIN COUNTY AIRPORT, NEAR MIDFIELD BETWEEN THE RUNWAY AND PARALLEL TAXIWAY, ABOUT 75 M (246.1 FT) SOUTHWEST OF THE NORTHEAST END OF A SMALL HILL AND THE BEGINNING OF A ROW OF TREES. OWNERSHIP--CITY OF OZARK, PO BOX 196, OZARK AR 72749, PHONE 501-667-2236. AIRPORT MANAGER IS BILL GRAY, PO BOX 412, OZARK AR 72949, PHONE 501-667-4796. CALL HIM IN ADVANCE FOR ACCESS THROUGH THE LOCKED GATE. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 23, ABOUT 5 KM (3.10 MI) NORTHWEST OF OZARK, GO SOUTHERLY ON HIGHWAY 23 FOR 3.06 KM (1.90 MI) TO A PAVED ROAD LEFT. TURN LEFT, EAST, THEN NORTH ON THE ROAD FOR 0.8 KM (0.50 MI) TO THE AIRPORT ENTRANCE ROAD ON THE LEFT AND A LOCKED GATE AT THE APRON. TURN LEFT, NORTHWEST, PASSING THROUGH THE GATE, THEN BEAR RIGHT, NORTH-NORTHWEST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY. TURN RIGHT, NORTHEAST ALONG THE TAXIWAY FOR 0.22 KM (0.15 MI) TO THE STATION ON THE LEFT. THE

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	ARPORT AZ MK (FG1958)
Geodetic Azimuth	045 47 42.7
Grid Azimuth	046 51 54.2

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
P 294	1/1/1984	NGS	JOHNSON	64	080320

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	123,857.4781
Easting (M)	274,006.6170
Elevation (M)*	135.824
Northing (SFT)	406,355.7427
Easting (SFT)	898,970.0426
Elevation (SFT)*	445.616

Convergence Angle	0	48	27.2182302
Scale Factor	0.999939012		
Elevation Adjust. Factor	0.9999786852		
Combined Adjust. Factor	0.9999176985		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	26	30.3129096
Longitude	93	23	16.0862460
Ellipsoid Height (M):	106.775		
Geoid Height (M):	-29.049		

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STATE HIGHWAY 64 AND STATE HIGHWAY 123, IN LAMAR, GO EAST FOR 0.25 FEET TO THE STATION MARK ON THE RIGHT, SOUTHWEST OF THE CENTERLINE OF THE HIGHWAY 41.0 FEET AND NORTHEAST 0.60 FEET OF A WITNESS POST. THE MARK IS A STAINLESS STEEL ROD DRIVEN TO REFUSAL AND SET IN A NGS LOGO CAP STAMPED "P 294 1984" FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE W/LIGHT	134	2.59	8.5
MK # 2	CHAIN LINK FENCE CORNER	145	2.71	8.9
MK # 3	WATER SIGN	315	22.25	73.0

AZ Mark Station	360010
Geodetic Azimuth	311 11 42
Grid Azimuth	312 00 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	RUSSPORT
Ref Mon # 2	OKHV
Ref Mon # 3	ARHR

Comments

NGS 1st Order Benchmark.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
P 311		NGS	CRAWFORD	282	040456

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	131,890.9841	
Easting (M)	191,972.1090	
Elevation (M)*	205.582	
Northing (SFT)	432,712.3370	
Easting (SFT)	629,828.4943	
Elevation (SFT)*	674.480	

Convergence Angle	-1	20	3.8804027
Scale Factor			0.999937002
Elevation Adjust. Factor			0.9999677385
Combined Adjust. Factor			0.9999047426

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	30	1.1960568
Longitude	94	17	35.5208820
Ellipsoid Height (M):	176.144		
Geoid Height (M):	-29.438		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 282 AND THE MISSOURI RAILROAD, IN RUDY, GO SOUTH ON HIGHWAY 282 2.6 MILES TO THE STATION MARK ON THE RIGHT, 29.9' NORTHWEST OF THE CENTERLINE OF THE HIGHWAY AND 1.0' SOUTHEAST OF A WITNESS POST. (SEE NGS DATA SHEET FOR ADDITIONAL REFERENCES). ACCESS TO THE DATUM POINT IS THROUGH A 5" LOGO CAP.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 170011
Ref Mon # 2	DQUA, 170012
Ref Mon # 3	SAL1, 170013

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
P 314	1/2/1990	NOAA	POINSETT	63	001849, 101235

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	136,257.0463	0.0020
Easting (M)	536,314.4384	0.0030
Elevation (M)*	64.478	

Northing (SFT)	447,036.6594	
Easting (SFT)	1,759,558.2867	
Elevation (SFT)*	211.542	

Convergence Angle	0	52	29.7031864
Scale Factor			0.999936091
Elevation Adjust. Factor			0.9999898814
Combined Adjust. Factor			0.9999259730

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	33	7.7079744
Longitude	90	29	47.2014744
Ellipsoid Height:			36.875
Grid Northing (Meters)			136,257.0382
Grid Easting (Meters)			536,314.4193

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	33	7.7082264	
Longitude	90	29	47.2007112	
Ellipsoid Height (M):			36.758	0.0001
Geoid Height (M):			-27.720	0.0001

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 9.04 KM (5.62 MI) TO THE STATION ON THE RIGHT. THE STATION IS 23.3 METERS EAST OF THE CENTER OF THE NORTHBOUND LANE OF U.S. HIGHWAY 63, 9.80 METERS NORTHEAST OF THE EAST END OF THE MOST NORTHERLY OF 2 CULVERTS, 0.50 METERS WEST OF A FIBERGLASS WITNESS POST AND 0.45 METER WEST OF AN AHTDN WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD WITH A PUNCH MARK ON TOP OF THE ROD WITH ACCESS THROUGH A 0.127 METER LOGA CAP STAMPED "P 314 1990". THE SHOT DISTANCE IS 614.415 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SOUTH IN LINE WOODEN BRACE POST	10	2.45	8.0
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	P 314A
Geodetic Azimuth	188 01 59.94657
Grid Azimuth	187 09 30.24464

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT (W 15 OFFSET)
Ref Mon # 2	ARPG (MANIPORT)
Ref Mon # 3	ARWY (MEM2)

Comments

SUPERCEDED GEOID HT. WAS -27.603m

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
P 314A	10/2/2000	AHTD	POINSETT	63	001849

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	135,647.4541	
Easting (M)	536,237.8605	
Elevation (M)*	72.318	
Northing (SFT)	445,036.6890	
Easting (SFT)	1,759,307.0473	
Elevation (SFT)*	237.263	

Convergence Angle	0	52	27.7191057
Scale Factor	0.999936149		
Elevation Adjust. Factor	0.9999886511		
Combined Adjust. Factor	0.9999248008		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	32	47.9678496
Longitude	90	29	50.6103756
Ellipsoid Height (M):	44.719		
Geoid Height (M):	-27.596		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 149, LOCATED IN MARKED TREE, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 8.38 KM (5.21 MI) TO THE JUNCTION OF STATE HIHGWAY 14 AND THE STATION ON THE LEFT. THE STATION IS 42.25 METERS WEST OF THE CENTER OF THE SOUTHBOUND LANE OF U.S. HIGHWAY 63, 7.74 METERS NORTH OF THE CENTER OF STATE HIGHWAY 14 AND 0.35 METERS SOUTH OF WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "P 314A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM NGS BENCH MARK P 314. THE SHOT DISTANCE IS 614.415 METERS.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	PUNCH IN TOP OF A METAL GUARD RAIL POST	108	3.90	12.8
MK # 2	PUNCH IN TOP OF A METAL GUARD RAIL POST	183	0.92	3.0
MK # 3	PUNCH IN TOP OF A METAL GUARD RAIL POST	259	3.95	13.0

AZ Mark Station	P 314
Geodetic Azimuth	8 01 57.96462
Grid Azimuth	7 09 30.24464

Area Reference Monuments (used for Processing)

Ref Mon # 1	W 15 OFFSET
Ref Mon # 2	MANIPORT
Ref Mon # 3	MEM2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
P 315	1/1/1990	NGS	LAWRENCE	63	100278

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	187,724.2110
Easting (M)	497,142.5130
Elevation (M)*	80.485
Northing (SFT)	615,891.8489
Easting (SFT)	1,631,041.7281
Elevation (SFT)*	264.058

Convergence Angle	0	37	37.6928721
Scale Factor			0.999964865
Elevation Adjust. Factor			0.9999873694
Combined Adjust. Factor			0.9999522349

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	36	1	14.2108644
Longitude	90	55	20.1295632
Ellipsoid Height:			52.606
Grid Northing (Meters)			187,724.4752
Grid Easting (Meters)			497,142.5253

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	14.2022964
Longitude	90	55	20.1301680
Ellipsoid Height (M):	52.530		
Geoid Height (M):	-27.920		

Location Description

THE STATION IS LOCATED ABOUT 32 KM (19.90 MI) NORTHWEST OF JONESBORO, 4 KM (2.50 MI) SOUTH OF WALNUT RIDGE, 3 KM (1.85 MI) SOUTHEAST OF HOXIE, ON A NORTH-SOUTH RIDGE BETWEEN A RAILROAD TRACK AND A CANAL, SOUTHWEST OF AND ACROSS A GRAVEL ROAD FROM A FARMHOUSE WITH SEVERAL GRAIN BINS. OWNERSHIP--MISSOURI PACIFIC RAILROAD. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 63, 67 AND SOUTHWEST LINDSEY STREET IN EAST HOXIE, GO SOUTHEASTERLY ON HIGHWAY 63 FOR 3.70 KM (2.30 MI) TO A PAVED CROSSROAD (STATE HIGHWAY 91). CONTINUE AHEAD, SOUTHEAST ON HIGHWAY 63 FOR 2.01 KM (1.25 MI) TO THE JUNCTION OF COUNTY ROAD 630 ON THE LEFT AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 64.3 M (211.0 FT) SOUTHEAST OF THE CENTER OF COUNTY ROAD 630, 43.9 M (144.0 FT) NORTHEAST OF THE HIGHWAY CENTER, 15.6 M (51.2 FT) NORTHEAST OF THE NORTHEAST RAIL OF THE TRACKS, 7.7 M (25.3 FT) EAST-SOUTHEAST OF A POWER POLE WITH 8 WIRES, 2.3 M (7.5 FT) NORTHWEST OF A POWER POLE WITH LINES CROSSING THE HIGHWAY AND 0.1 M (0.3 FT) SOUTHEAST OF A

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY POLE	128	2.29	7.5
MK # 2	TELEPHONE POLE	252	7.58	24.9
MK # 3	TELEPHONE JUNCTION BOX	26	43.57	142.9

AZ Mark Station	P 315 AZ
Geodetic Azimuth	139 17 37.3155
Grid Azimuth	138 39 59.65786

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK NW BASE
Ref Mon # 2	PARAPORT
Ref Mon # 3	160014

Comments

THIS STATION IS A NGS BENCH MARK. FIRST ORDER, CLASS 2.
ELEVATION = 80.485 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
P 315 AZ	10/28/1997	AHTD	LAWRENCE	63	100278

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	187,391.6039	
Easting (M)	497,435.3040	
Elevation (M)*	78.447	
Northing (SFT)	614,800.6205	
Easting (SFT)	1,632,002.3265	
Elevation (SFT)*	257.372	

Convergence Angle	0	37	44.4122332
Scale Factor	0.999964465		
Elevation Adjust. Factor	0.9999876893		
Combined Adjust. Factor	0.9999521547		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	1	3.3072240
Longitude	90	55	8.5828728
Ellipsoid Height (M):	51.069		
Geoid Height (M):	-27.874		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 91, LOCATED ABOUT 3.86 KM. (2.40 MI.) SOUTHEAST OF HOXIE, GO SOUTHEAST ON U.S. 63 FOR 2.57 KM. (1.6 MI.) TO THE STATION ON THE RIGHT. 26.93 METERS SOUTHEAST OF THE CENTER OF A FIELD ENTRANCE, 23.259 METERS SOUTHWEST OF THE CENTER OF U.S. 63 AND 0.30 METERS NORTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "P 315 AZ 1997" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE JUNCTION BOX	125	3.99	13.1
MK # 2	NORTHWEST END OF METAL PIPE	316	30.79	101.0
MK # 3				

AZ Mark Station	P 315
Geodetic Azimuth	319 17 44.10558
Grid Azimuth	318 39 59.65786

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK NW BASE
Ref Mon # 2	PARAPORT
Ref Mon # 3	160014

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS 1001	1/1/1990	NGS	PULASKI	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	625,888.9699	
Easting (M)	383,838.0240	
Elevation (M)*	73.400	
Northing (SFT)	2,053,437.3954	
Easting (SFT)	1,259,308.5837	
Elevation (SFT)*	240.813	

Convergence Angle	0	5	55.4485405
Scale Factor	0.999986451		
Elevation Adjust. Factor	0.9999884813		
Combined Adjust. Factor	0.9999749324		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	42	11.2548852	
Longitude	92	10	35.0803200	
Ellipsoid Height (M):	46.840			
Geoid Height (M):	-26.540			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAYS 30 AND 440 IN LITTLE ROCK, GO EAST ON INTERSTATE HIGHWAY 440 FOR ABOUT 7.3 KM (4.55 MI), THEN TURN SOUTH ON FOURCHE DAM PIKE AND GO 0.9 KM (0.55 MI) TO FRAZIER PIKE ROAD. TURN LEFT AND GO EAST, THEN SOUTH FOR 3.7 KM (2.30 MI) TO THE ENTRANCE ROAD TO THE FOURCHE SEWAGE TREATMENT PLANT (BIRDWELL DRIVE). THE STATION IS IN THE NORTHEAST CORNER OF THE INTERSECTION OF FRAZIER PIKE ROAD AND THE ENTRANCE TO THE FOURCHE SEWAGE TREATMENT PLANT, APPROXIMATELY 20.4 METERS (66.9 FT) FROM THE CENTERLINE OF THE ENTRANCE ROAD AND 31.2 METERS (102.4 FT) FROM THE CENTERLINE OF FRAZIER PIKE ROAD. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	PAGIS 2001 (AE3003)
Geodetic Azimuth	343 32 16.3
Grid Azimuth	343 38 11.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS 1004	1/1/1990	PAGIS	PULASKI	630	060816

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	630,619.9940
Easting (M)	369,343.1730
Elevation (M)*	112.537
Northing (SFT)	2,068,959.0970
Easting (SFT)	1,211,753.3934
Elevation (SFT)*	369.215

Convergence Angle	0	11	14.5707351
Scale Factor			0.999995341
Elevation Adjust. Factor			0.9999823396
Combined Adjust. Factor			0.9999776807

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	44	43.6215984
Longitude	92	20	5.2389996
Ellipsoid Height:			84.978
Grid Northing (Meters)			630,620.3754
Grid Easting (Meters)			369,343.6147

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	44	43.6091748
Longitude	92	20	5.2563156
Ellipsoid Height (M):			85.880
Geoid Height (M):			-27.610

Location Description

INTERSTATE HIGHWAYS 430 AND 630, ON THE WEST SIDE OF LITTLE ROCK, GO EAST ON INTERSTATE 630 FOR 3.2 M (10.5 FT) TO EXIT 4, FAIR PARK BOULEVARD. FOLLOW OFF RAMP FOR 0.05 MI (0.08 KM) TO FAIR PARK BOULEVARD. TURN LEFT, NORTH ON FAIR PARK BOULEVARD FOR 0.05 MI (0.08 KM) TO THE STATION ON THE LEFT. THE STATION IS 96.3 FT (29.4 M) SOUTH-SOUTHEAST OF THE SOUTH EDGE OF THE SOUTH CURB OF THE ENTRANCE RAMP TO WESTBOUND INTERSTATE HIGHWAY 630, 54.0 FT (16.5 M) WEST-NORTHWEST OF THE NORTH END OF THE WEST CONCRETE BRIDGE GUARDRAIL, 48.6 FT (14.8 M) WEST OF THE WEST EDGE OF THE WEST CURB OF FAIR PARK BOULEVARD, 34.3 FT (10.5 M) WEST-SOUTHWEST OF THE SOUTHWEST CORNER OF A 4 FT (1.2 M) BY 6 FT (1.8 M) CONCRETE SLAB FOR AN ELECTRIC JUNCTION BOX, 28.4 FT (8.7 M) EAST-SOUTHEAST FROM A 12-CM PINE TREE AND 2.8 FT (0.9 M) NORTH OF A METAL WITNESS POST AND FIBERGLASS WITNESS POST. THE STATION IS A ALUMINUM DISK SET INTO THE TOP OF A 5-INCH ROUND CONCRETE POST FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SIGNAL LIGHT POLE	100	15.63	51.3
MK # 2	CENTER OF SOUTH SIDE OF TELEPHONE BOX	65	11.71	38.4
MK # 3	0.15 METER PINE	347	11.63	38.2

AZ Mark Station	600033
Geodetic Azimuth	258 41 43.05738
Grid Azimuth	258 53 24.49231

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	PAGIS 1004

Comments

ELEVATION BY THREE WIRE LEVELING FROM STATION 600027A
ELEVATION = 123.691 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS 1005	1/2/1999	UAM	PULASKI	430	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	51,322.5289	
Easting (M)	364,512.0540	
Elevation (M)*	114.963	
Northing (SFT)	168,380.6636	
Easting (SFT)	1,195,903.2972	
Elevation (SFT)*	377.174	

Convergence Angle	0	13	32.3202125
Scale Factor	1.000030004		
Elevation Adjust. Factor	0.9999819589		
Combined Adjust. Factor	1.0000119623		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	47	43.0985868
Longitude	92	23	15.9811476
Ellipsoid Height (M):	88.201		
Geoid Height (M):	-26.762		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF I-430 AND MAUMELLE BLVD., LOCATED IN SOUTHWEST NORTH LITTLE ROCK, GO SOUTH ON I-430 SOUTHBOUND LANE FOR 3.22 KM (2.00 MI) TO THE STATION ON THE RIGHT SET JUST SOUTH OF THE BRIDGE OVER THE ARKANSAS RIVER. THE STATION IS ABOUT 18.64 METERS NORTHWEST OF THE CENTER OF THE SOUTHBOUND LANE OF I-430 AND 0.91 METERS NORTHWEST OF A GUARD RAIL. THE STATION MARK IS AN ALUMINUN CAP SET ON TOP OF A ROUND CONCRETE POST SET FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	AHTD LR 1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS 2001	1/1/1990	NGS	PULASKI	N/A	NA,BB0611

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	627,210.7920	
Easting (M)	383,449.9070	
Elevation (M)*	77.638	
Northing (SFT)	2,057,774.0734	
Easting (SFT)	1,258,035.2365	
Elevation (SFT)*	254.718	

Convergence Angle	0	6	4.0356441
Scale Factor	0.999988897		
Elevation Adjust. Factor	0.9999878162		
Combined Adjust. Factor	0.9999767133		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	34	42	54.1283040	
Longitude	92	10	50.4229080	
Ellipsoid Height (M):	51.040			
Geoid Height (M):	-26.550			

Location Description

TO REACH THE STATION FROM THE INTERSECTION OF FOURCHE DAM PIKE AND LINDSEY DRIVE, GO EAST FOR APPROXIMATELY 0.50 MI (0.80 KM) ON LINDSEY DRIVE. THE STATION IS ON TOP OF LEVEE ON THE SOUTHEAST SIDE OF LINDSEY DRIVE, APPROXIMATELY 38.8 FT (11.8 M) FROM THE CENTERLINE OF LINDSEY DRIVE, APPROXIMATELY 91.8 FEET (28.0 M) EAST OF THE EAST ENTRANCE TO THE MID-CONTINENT FUEL COMPANY INC. (8401 LINDSEY). FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	PAGIS 1001 (AE3001)
Geodetic Azimuth	163 32 07.6
Grid Azimuth	163 38 11.6

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

PREVIOUS ELEV. (77.600 m) FROM UNDOCUMENTED SOURCE **UPDATED ELEV. BY S5112 IN JUNE 2013 FOR JOB #BB0611 DERIVED FROM DIGITAL LEVELS FROM NGS 1ST ORDER BM D 287.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS 2043	1/1/1990	NGS	PULASKI	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	622,719.0648	
Easting (M)	366,233.4822	
Elevation (M)*	92.400	
Northing (SFT)	2,043,037.4651	
Easting (SFT)	1,201,551.0162	
Elevation (SFT)*	303.149	

Convergence Angle	0	12	22.3698876	
Scale Factor	0.999980675			
Elevation Adjust. Factor	0.9999854996			
Combined Adjust. Factor	0.9999661749			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 96			
Latitude	34	40	26.8650901	
Longitude	92	22	6.3931400	
Ellipsoid Height (M):	65.860			
Geoid Height (M):	-26.450			

Location Description

THE STATION IS LOCATED IN THE SOUTHWEST PART OF LITTLE ROCK, AT THE SOUTHEAST CORNER OF PRODUCTION DRIVE AND INTERSTATE HIGHWAY 30 ACCESS ROAD, IN PUBLIC RIGHT-OF-WAY. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 30 AND BASELINE ROAD IN THE SOUTHWEST PART OF LITTLE ROCK, GO NORTHEASTERLY ON THE SOUTH ACCESS ROAD OF INTERSTATE HIGHWAY 30 FOR APPROXIMATELY 1.1 KM (0.70 MI) TO THE STATION. THE STATION IS APPROXIMATELY 13.7 METERS (44.9 FT) EAST OF THE CENTERLINE OF PRODUCTION DRIVE, 16.2 METERS (53.1 FT) SOUTH OF THE CENTERLINE OF THE SOUTH ACCESS ROAD FOR INTERSTATE HIGHWAY 30, IN A GRASSY AREA APPROXIMATELY 15.2 METERS (49.9 FT) NORTHWEST OF THE BUILDING LOCATED AT 9621 I-30. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-765-2772.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS 2074	1/1/1990	NGS	PULASKI	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	634,218.5350	
Easting (M)	357,610.0710	
Elevation (M)*	172.300	
Northing (SFT)	2,080,765.3102	
Easting (SFT)	1,173,259.0413	
Elevation (SFT)*	565.288	

Convergence Angle	0	15	33.1002784
Scale Factor	1.000002433		
Elevation Adjust. Factor	0.9999729612		
Combined Adjust. Factor	0.9999753942		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	46	38.9011620
Longitude	92	27	47.1713508
Ellipsoid Height (M):	145.440		
Geoid Height (M):	-26.820		

Location Description

THE STATION IS LOCATED IN THE WESTERN PART OF LITTLE ROCK, IN THE GRASS MEDIAN OF CHENAL PARKWAY (PUBLIC STREET RIGHT-OF-WAY) BETWEEN CHENAL VALLEY DR. AND CHENAL CLUB BLVD. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND CHENAL PARKWAY, GO SOUTH ON CHENAL PARKWAY FOR APPROXIMATELY 4.9 KM (3.05 MI) TO THE STATION. THE STATION IS IN THE CENTER GRASS MEDIAN APPROXIMATELY 10.7 METERS (35.1 FT) FROM THE BACK OF THE NORTHERLY CURB OF CHENAL PARKWAY AND APPROXIMATELY 217.6 METERS (713.9 FT) NORTHWESTERLY FROM THE CENTERLINE OF CHENAL VALLEY DRIVE. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS 2092	1/1/1990	AHTD	PULASKI	10	060884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	60,218.8590
Easting (M)	342,274.7610
Elevation (M)*	102.559
Northing (SFT)	197,568.0399
Easting (SFT)	1,122,946.4450
Elevation (SFT)*	336.479

Convergence Angle	0	22	2.6270617
Scale Factor			1.000012100
Elevation Adjust. Factor			0.9999839054
Combined Adjust. Factor			0.9999960052

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	52	28.0464888
Longitude	92	37	52.9490352
Ellipsoid Height (M):	75.116		
Geoid Height (M):	-27.443		

Location Description

TO REACH THE STAION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO EAST ON STATE HIGHWAY 10 FOR 3.19 KM (1.98 MI) TO THE STATION ON THE LEFT. THE STATION IS 11.60 METERS NORTH OF THE CENTER OF STATE HIGHWAY 10, 1.00 METERS SOUTH OF A FIBERGLASS WITNESS POST AND 0.50 METERS NORTH OF AN AHTD WITNESS POST. THE STATION MARK IS AN ALUMINUM CAP SET IN CONCRETE STAMPED "PAGIS 2092 1990".

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2				
MK # 3				

AZ Mark Station	600037
Geodetic Azimuth	252 56 11.78460
Grid Azimuth	253 18 14.45444

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SALIPORT
Ref Mon # 3	PJTC CAMPUS

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM USC&GS BENCHMARK "TT 22 RWS" ELEVATION = 89.941 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS 2093	1/1/1990	AHTD	PULASKI	10	060884

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	60,354.2760	
Easting (M)	332,431.7160	
Elevation (M)*	121.752	
Northing (SFT)	198,012.3205	
Easting (SFT)	1,090,653.0549	
Elevation (SFT)*	399.448	

Convergence Angle	0	25	48.1708439
Scale Factor	1.000011971		
Elevation Adjust. Factor	0.9999808935		
Combined Adjust. Factor	0.9999928643		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	52	30.2179332
Longitude	92	44	20.5484856
Ellipsoid Height (M):	94.126		
Geoid Height (M):	-27.626		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 10 AND STATE HIGHWAY 113, LOCATED ABOUT 12.87 KM (8.00 MI) EAST OF WILLIAMS JUNCTION, GO WEST ON STATE HIGHWAY 10 FOR 7.97 KM (4.95 MI) TO THE STATION ON THE LEFT. THE STATION IS 15.95 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 10, 7.60 METERS WEST OF THE CENTER OF A GRAVEL DRIVE AND 2.60 METERS NORTH OF A WITNESS POST. THE STATION MARK IS AN ALUMINUM CAP SET IN CONCRETE STAMPED "PAGIS 2093 1990".

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	199	7.55	24.8
MK # 2	0.50 METER RCP	35	7.88	25.9
MK # 3	GUY POLE	70	20.23	66.4

AZ Mark Station	600038
Geodetic Azimuth	69 21 48.672320
Grid Azimuth	69 47 36.784638

Area Reference Monuments (used for Processing)

Ref Mon # 1	ROCKPORT
Ref Mon # 2	SALIPORT
Ref Mon # 3	PJTC CAMPUS

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM T-5 REBAR/CAP ON JOB 001837 ELEVATION = 122.691 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PAGIS UALR 16		PAGIS	PULASKI	630	060816,061381

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	629,980.4751	
Easting (M)	374,316.2947	
Elevation (M)*	105.670	
Northing (SFT)	2,066,860.9421	
Easting (SFT)	1,228,069.3769	
Elevation (SFT)*	346.686	

Convergence Angle	0	9	25.1045502
Scale Factor			0.999994127
Elevation Adjust. Factor			0.9999834172
Combined Adjust. Factor			0.9999775443

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	GEIOD09

Latitude	34	44	23.3409840	
Longitude	92	16	49.6729560	
Ellipsoid Height (M):			79.037	
Geoid Height (M):			-26.623	

Location Description

THE STATION IS LOCATED IN THE SOUTHEASTERN QUADRANT OF THE I-630 AND STATE STREET INTERCHANGE. 12.60 METERS NORTH OF THE CENTER OF A PAVED STREET, 7.85 METERS EAST OF THE CENTER OF STATE STREET AND 1.675 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS AN ALUMINUM CAP SET IN A CONCRETE POST.

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	34	44	23.3539440
Longitude	92	16	49.6563204
Ellipsoid Height:			78.166
Grid Northing (Meters)			629,980.8733
Grid Easting (Meters)			374,316.7190

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	'X" CUT IN SOUTHEAST CORNER OF BRIDG E	9	3.30	10.8
MK # 2	"X" CUT IN SOUTHWEST CORNER OF BRID GE	300	19.15	62.8
MK # 3	LIGHT POLE	280	20.40	66.9

AZ Mark Station	600035
Geodetic Azimuth	93 09 05.00961
Grid Azimuth	93 18 52.42579

Area Reference Monuments (used for Processing)

Ref Mon # 1	ADAMS 2
Ref Mon # 2	ROCKPORT
Ref Mon # 3	PAGIS 1004

Comments

ELEVATION BY THREE WIRE LEVELING USING A.H.T.D. BM DISK SET IN THE NW WINGWALL OF THE STATE STREET BR. OVER I-630. ELEV = 100.484 m NAVD88 DATUM. BM ELEVATION WAS ARRIVED AT BY USING VERTCON TO CONVERT FROM NGVD29 TO NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PARAPORT	1/2/2000	NGS	Greene	49	100632

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	192,700.8037	
Easting (M)	534,163.9357	
Elevation (M)*	87.996	
Northing (SFT)	632,219.2201	
Easting (SFT)	1,752,502.8457	
Elevation (SFT)*	288.700	

Convergence Angle	0	51	59.7453623
Scale Factor			0.999970490
Elevation Adjust. Factor			0.9999861907
Combined Adjust. Factor			0.9999566812

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	3	39.9982799
Longitude	90	30	38.6848699
Ellipsoid Height:			59.813
Grid Northing (Meters)			192,700.7953
Grid Easting (Meters)			534,163.9030

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID12A		
Latitude	36	3	39.9985380
Longitude	90	30	38.6835588
Ellipsoid Height (M):	59.754		
Geoid Height (M):	-28.230		

Location Description

TO REACH FROM THE JUNCTION OF U.S.HIGHWAYS 49 AND 412 IN PARAGOULD, GO WEST ON U.S.HIGHWAY 412 FOR 1.11 KM (0.69 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO NORTH ON THE PAVED ROAD FOR 0.46 KM (0.29 MI) TO A PAVED ROAD ON THE RIGHT. TURN A VERY SHARP RIGHT AND GO EAST ON THE PAVED ROAD FOR 0.1 KM (0.1 MI) TO AN APRON, TAXIWAY AND THE AIRPORT OFFICE ON THE RIGHT. CONTINUE EAST ACROSS APRON AND TAXIWAY FOR 0.19 KM (0.12 MI) TO THE RUNWAY AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD, ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP. IT IS SET 42.25 M (138.62 FT) SOUTHEAST OF THE SOUTHEAST EDGE OF A APRON, 37.0 M (121.4 FT) NORTHWEST FROM RUNWAY CENTERLINE, 21.15M (69.39 FT) NORTH-NORTHEAST FROM TAXIWAY CENTERLINE AND 13.7 M (44.9 FT) NORTH OF A BLUE TAXIWAY LIGHT.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	MODP
Ref Mon # 3	MOKE

Comments

23. ft south of CL Greene Co. rd. 842, 33. ft east of the east rail., 5.ft north of w.p. Position determined by static GPS observation in May 2015 by crew s5102.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PJTC CAMPUS	8/19/1997	ARGLS	CONWAY	I40	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2002)

Northing (M)	93,358.9459	
Easting (M)	333,872.1742	
Elevation (M)*	103.705	
Northing (SFT)	306,295.1417	
Easting (SFT)	1,095,378.9582	
Elevation (SFT)*	340.238	

Convergence Angle	0	25	20.7426589
Scale Factor			0.999961578
Elevation Adjust. Factor			0.9999837256
Combined Adjust. Factor			0.9999453042

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	35	10	21.5435172
Longitude	92	43	33.4134516
Ellipsoid Height:			75.170
Grid Northing (Meters)			93,358.9481
Grid Easting (Meters)			333,872.1590

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid96		
Latitude	35	10	21.5434488
Longitude	92	43	33.4128504
Ellipsoid Height (M):	75.289		
Geoid Height (M):	-28.416		

Location Description

THE STATION IS IN THE NORTHERN PART OF MORRILTON, ON THE PETIT JEAN TECHNICAL COLLEGE, ON THE EAST SIDE OF THE TECHNOLOGY II BUILDING. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 9 (EXIT 108) IN MORRILTON, GO SOUTH ON HIGHWAY 9 FOR 0.30 MI (0.48 KM) TO BRUCE STREET ON THE RIGHT. TURN RIGHT, NORTHWEST ON BRUCE STREET ALONG THE NORTH SIDE OF THE COLLEGE BUILDINGS AND AROUND THE TECHNOLOGY II BUILDING FOR 0.5 MI (0.8 KM) TO THE STATION ON THE RIGHT. THE STATION IS SET IN A 12 INCH DIAMETER ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED 34 FT (10.4 M) SOUTH OF THE SOUTH EDGE OF AN ASPHALT PARKING AREA, 106.3 FT (32.4 M) SOUTHEAST OF THE NORTHEAST CORNER OF THE TECHNOLOGY II BUILDING, 194.3 FT (59.2 M) NORTHEAST OF THE SOUTHEAST CORNER OF THE SAME BUILDING.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	TOP OPERATING NUT OF A FIRE HYDRANT	WEST	16.30	53.5
MK # 2	CENTERLINE OF AN ASPHALT DRIVE	SOUTH	19.40	63.6
MK # 3	DRAINAGE SWALE	WEST	2.70	8.9

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
PLEASANT	1/1/1941	NGS	HOT SPRING	7	061021

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	587,601.4909
Easting (M)	293,537.0920
Elevation (M)*	
Northing (SFT)	1,927,822.5581
Easting (SFT)	963,046.2760
Elevation (SFT)*	
Convergence Angle	0 38 51.8101137
Scale Factor	0.999933845
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	34	21	9.6055488
Longitude	93	9	26.2478376
Ellipsoid Height (M):	0.000		
Geoid Height (M):	-27.070		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

DESCRIBED BY COAST AND GEODETIC SURVEY 1941 (KBJ) STATION IS ON THE SUMMIT OF MOUNT PLEASANT OF JACK MOUNTAIN, A HIGH, PROMINENT, TIMBERED PEAK, (THE HIGHEST POINT IN THE VICINITY), 2-1/2 MILES N BY E OF BISMARK, 12 MILES SSW OF HOT SPRINGS, 1-1/4 MILES E OF STATE HIGHWAY 7, IN THE SW 1/4 OF SECTION 28, T 4 S, R 20 W.

STATION MARK IS 20.8 FEET E OF THE NE LEG OF LOOKOUT TOWER, 47.3 FEET W OF THE NW CORNER OF THE LOOKOUTS DWELLING AND IS STAMPED PLEASANT 1940. MARK PROJECTS 3 INCHES.SURFACE, UNDERGROUND AND AZIMUTH MARKS ARE STANDARD BRONZE DISKS SET IN CONCRETE AS DESCRIBED.REFERENCE MARK NO. 1 IS A STANDARD BRONZE DISK SET IN A DRILL HOLE IN THE CONCRETE BASE OF THE LOOKOUT TOWER STEPS, NEAR THE CENTER OF THE TOWER AT THE BASE, AND IS STAMPED PLEASANT NO. 1, 1940. THE MARK IS FLUSH WITH THE SURFACE OF THE FOUNDATION.REFERENCE MARK NO. 2 IS A STANDARD BRONZE DISK WEDGED IN A DRILL HOLE IN OUTCROPPING BEDROCK, 36.7 FEET N OF THE NE LEG OF THE LOOKOUT TOWER AND IS STAMPED PLEASANT NO. 2, 1940. THE MARK PROJECTS 6 INCHES.AZIMUTH MARK IS 1.5 MILES N BY W OF THE STATION, 33 FEET W OF THE CENTER LINE OF STATE

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	ARKANSAS FORESTRY COMM LOT 5 4	255 18	10.00	32.8
MK # 2	PLEASANT RM1	255 25	8.37	27.5
MK # 3	PLEASANT RM2	326 00	14.46	47.5

AZ Mark Station	PLEASANT AZ MK RESET
Geodetic Azimuth	346 32 02.7
Grid Azimuth	347 10 54.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
POCAPORT	1/1/1990	NGS	RANDOLPH	67	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	212,639.4100	
Easting (M)	493,864.5710	
Elevation (M)*	82.860	
Northing (SFT)	697,634.4643	
Easting (SFT)	1,620,287.3467	
Elevation (SFT)*	271.850	

Convergence Angle	0	36	27.6571571
Scale Factor	1.000002424		
Elevation Adjust. Factor	0.9999869967		
Combined Adjust. Factor	0.9999894207		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	14	43.6567344
Longitude	90	57	20.4873084
Ellipsoid Height (M):	54.620		
Geoid Height (M):	-28.230		

Location Description

THE STATION IS LOCATED ABOUT 21 KM (13.05 MI) NORTHEAST OF IMBODEN, 19 KM (11.80 MI) NORTH OF WALNUT RIDGE, 3 KM (1.85 MI) SOUTHEAST OF POCAHONTAS, AT NICK WILSON FIELD, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF THE RUNWAY AND MIDFIELD CONNECTOR, EAST OF AND ACROSS THE APRON AND PARALLEL TAXIWAY FROM THE ADMINISTRATION BUILDING. OWNERSHIP--CITY OF POCAHONTAS, 2006 AIRWAYS LANE, POCAHONTAS AR 72455. AIRPORT MANAGER IS GREG SWINK, PHONE 501-892-5606, 869-2260. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 67 IN POCAHONTAS, GO SOUTH ON HIGHWAY 67 FOR 1.87 KM (1.15 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, EAST ON THE ROAD FOR 0.11 KM (0.05 MI) TO A GATE ON THE NORTH SIDE OF THE AIRPORT OFFICE AND FIRE DEPARTMENT. PASS THROUGH THE GATE AND BEAR RIGHT, EAST-SOUTHEAST ACROSS THE APRON FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF THE PARALLEL TAXIWAY AND A CONNECTOR TAXIWAY AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE-FILLED SLEEVE 90 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 43.3 M (142.1

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	CAPORT AZ MK (GE1194)
Geodetic Azimuth	182 34 13.5
Grid Azimuth	181 57 45.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
OCAPORT AZ MI	1/1/1990	NGS	RANDOLPH	67	100877

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	212,066.4270	0.0020
Easting (M)	493,844.9816	0.0020
Elevation (M)*	82.600	
Northing (SFT)	695,754.6026	
Easting (SFT)	1,620,223.0771	
Elevation (SFT)*	270.997	

Convergence Angle	0	36	27.0590372	
Scale Factor	1.000001388			
Elevation Adjust. Factor	0.9999870375			
Combined Adjust. Factor	0.9999884255			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:				
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	36	14	25.0752120	
Longitude	90	57	21.5151840	
Ellipsoid Height (M):	54.196			0.0140
Geoid Height (M):	-28.299			

Location Description

STATION IS LOCATED ABOUT 20.9 KM (13.0 MI) NORTHEAST OF IMBODEN, 19.3 KM (12.0 MI) NORTH OF WALNUT RIDGE, AND 3.1 KM (1.9 MI) SOUTHEAST OF POCAHONTAS. AT THE POCAHONTAS MUNICIPAL AIRPORT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 67 IN POCAHONTAS GO SOUTH ON U.S. HIGHWAY 67 FOR 1.87 KM (1.16 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO EAST ON THE AIRPORT ENTRANCE ROAD FOR 100 FT (30.5 M) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTHERLY ON THE PAVED ROAD PASSING AROUND THE NORTH END OF A HANGER FOR 0.17 KM (0.11 MI) TO AN APRON. TURN RIGHT AND GO SOUTH ON THE APRON FOR 0.14 KM (0.09 MI) TO A TAXIWAY ON THE LEFT. TURN LEFT AND GO EAST ON TAXIWAY FOR 0.08 KM (0.05 MI) TO THE RUNWAY. TURN RIGHT AND SOUTH ON THE RUNWAY FOR 0.60 KM (0.37 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5 INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 12.8 M (42.0 FT) EAST OF A RIGHT OF WAY FENCE, 11.6 M (38.1 FT) WEST OF THE WEST EDGE OF A TURN AROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARBT

Comments

Elevation from NGS datasheet.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
POCOLA	1/1/1993	NGS	OK / LEFLORE	N/A	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	108,230.9611	
Easting (M)	176,549.5430	
Elevation (M)*	164.600	
Northing (SFT)	355,087.7449	
Easting (SFT)	579,229.6257	
Elevation (SFT)*	540.025	

Convergence Angle	-1	25	46.2537541
Scale Factor			0.999949607
Elevation Adjust. Factor			0.9999741696
Combined Adjust. Factor			0.9999237779

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	17	1.5916164	
Longitude	94	27	23.8932216	
Ellipsoid Height (M):	134.260			
Geoid Height (M):	-30.420			

Location Description

STATION IS LOCATED ABOUT 4 KM (2.50 MI) NORTH-NORTHEAST OF POCOLA, 2 KM (1.25 MI) EAST OF THE ARKANSAS STATE LINE, ALONG A ROAD PARALLELING HIGHWAYS 112 AND 271, NEAR THE ENTRANCE TO THE TRI-STATE SPEEDWAY, ALONG A FENCE SEPARATING THE ROAD FROM A BANK EDGE, ABOUT 20 M (65.6 FT) ABOVE THE HIGHWAYS, IN THE NORTHEAST 1/4 OF SECTION 12, T 11 N, R 23 E. OWNERSHIP--OKLAHOMA DEPARTMENT OF TRANSPORTATION. TO REACH FOM THE JUNCTION OF U.S. HIGHWAY 271 AND STATE HIGHWAYS 9 AND 112 (N. POCOLA BLVD), ABOUT 3 KM (1.85 MI) NORTH OF POCOLA, GO EAST ON HIGHWAYS 112 AND 271 FOR 1.08 KM (0.65 MI) TO THE BRIDGE OVER CEDAR CREEK. CONTINUE AHEAD, EAST, FOR 0.66 KM (0.40 MI) TO THE SECOND OF TWO PAVED ROADS LEFT. TURN LEFT, NORTHWEST, THEN NORTHEAST, UPHILL FOR 0.50 KM (0.30 MI) TO THE STATION ON THE LEFT, 0.06 KM (0.05 MI) BEFORE A PAVED ROAD LEFT. STATION MARK IS A SURVEY DISK SET IN THE EASTERN END OF A EXPOSED BEDROCK RIDGE. IT IS 15.8 M (51.8 FT) NORTH-NORTHWEST OF, AND 2 M (6.6 FT) HIGHER THAN THE ROAD CENTER, 1.55 M (5.09 FT) EAST-NORTHEAST OF A METAL WITNESS POST, 30.2 M (99.1 FT) WEST-SOUTHWEST OF A HIGH VOLTAGE POWERLINE POLE, 19.8 M (65.0 FT) SOUTHWEST OF 16-INCH OAK TREE, 43.2

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Q 189	1/1/1956	USC&GS	CLAY	62	R00084

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	230,422.1171	
Easting (M)	560,967.5400	
Elevation (M)*	121.126	
Northing (SFT)	755,976.5625	
Easting (SFT)	1,840,441.0042	
Elevation (SFT)*	397.394	

Convergence Angle	1	2	38.8727503
Scale Factor			1.000036453
Elevation Adjust. Factor			0.9999809917
Combined Adjust. Factor			1.0000174440

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	23	49.1290836
Longitude	90	12	20.3361696
Ellipsoid Height (M):	91.778		
Geoid Height (M):	-29.348		

Location Description

FROM THE POST OFFICE IN PIGGOTT, GO WEST ON HWY. 62 FOR 2.41 KM (1.50 MILES) TO THE STATION ON THE RIGHT AT THE TOP OF A LONG GRADE DESCENDING TO THE NORTHWEST. THE STATION IS 10.80 METERS NORTHEAST OF THE CENTERLINE OF HWY. 62 AND 0.31 METERS SOUTHWEST OF A WITNESS POST SET IN A FENCE LINE. THE STATION MARK IS A STANDARD BRASS CAP SET ON TOP OF A CONCRETE POST THAT PROJECTS THREE (3) INCHES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	POWER POLE	157	5.40	17.7
MK # 2	12" METAL PIPE	200	5.80	19.0
MK # 3	NONE			

AZ Mark Station	110005
Geodetic Azimuth	318 31 35.45132
Grid Azimuth	317 28 56.48401

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Cross Reference Job: R00119 and R00125

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Q 205	1/1/1962	CGS	WHITE	13	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	108,572.0631	
Easting (M)	430,898.1130	
Elevation (M)*	125.198	
Northing (SFT)	356,206.8437	
Easting (SFT)	1,413,704.8924	
Elevation (SFT)*	410.754	

Convergence Angle	0	11	51.7817602
Scale Factor			0.999947201
Elevation Adjust. Factor			0.9999803527
Combined Adjust. Factor			0.9999275548

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	18	41.3896212
Longitude	91	39	36.7952796
Ellipsoid Height (M):	97.920		
Geoid Height (M):	-27.270		

Location Description

THE STATION IS LOCATED ABOUT 11 KM (6.85 MI) NORTHEAST OF SEARCY, 3 KM (1.85 MI) NORTHWEST OF JUDSONIA, 2 KM (1.25 MI) NORTHWEST OF U.S. HIGHWAY 67, NORTHEAST OF AND ACROSS THE HIGHWAY FROM A TWO STORY LOG HOME, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF STATE HIGHWAYS 13 AND 157, AND IN THE ROAD RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF U.S. HIGHWAY 67 AND STATE HIGHWAY 157 (EXIT 51) ABOUT 6 KM (3.70 MI) SOUTHWEST OF BALD KNOB, GO NORTHWEST AND WEST ON HIGHWAY 157 FOR 1.72 KM (1.05 MI) TO A PAVED CROSSROAD (STATE HIGHWAY 13). TURN LEFT, SOUTH ON HIGHWAY 13 FOR 0.11 KM (0.05 MI) TO THE STATION ON THE LEFT. THE STATION IS SET NEAR THE NORTH END OF THE TOP OF A CONCRETE HEADWALL OF A CULVERT UNDER THE HIGHWAY AND IS FLUSH WITH THE GROUND. IT IS 37.6 M (123.4 FT) SOUTH OF THE EXTENDED CENTER OF A PAVED DRIVE TO A BRICK HOUSE WITH A SEPARATE TWO CAR GARAGE, 11.5 M (37.7 FT) EAST-SOUTHEAST OF A POWERLINE POLE, 5.1 M (16.7 FT) EAST OF AND ABOUT LEVEL WITH THE HIGHWAY CENTER, 4.0 M (13.1 FT) NORTH OF THE WEST ONE OF THREE LEGS OF A STEEL HIGHWAY SIGN, 4.0 M (13.1 FT) WEST OF A

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Q 28	1/1/1932	NGS	CRAWFORD	NA	040456, 4594

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	125,702.0860	
Easting (M)	187,963.8730	
Elevation (M)*	140.247	
Northing (SFT)	412,407.5938	
Easting (SFT)	616,678.1400	
Elevation (SFT)*	460.127	

Convergence Angle	-1	21	33.0164611
Scale Factor	0.999938928		
Elevation Adjust. Factor	0.9999779912		
Combined Adjust. Factor	0.9999169205		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	26	37.3692084
Longitude	94	20	8.7021708
Ellipsoid Height (M):	110.539		
Geoid Height (M):	-29.708		

Location Description

IN VAN BUREN AT THE JUNCTION OF 22nd STREET AND ALMA BOULEVARD, 40.4' SOUTH OF THE CENTERLINE OF THE BOULEVARD AND SET IN A CONCRETE POST 0.2' ABOVE THE GROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY, 170011
Ref Mon # 2	DQUA, 170012
Ref Mon # 3	SAL1, 170013

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Q 292	1/1/1984	NGS	POPE	64	080295

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	106,372.1601
Easting (M)	294,345.0650
Elevation (M)*	110.274
Northing (SFT)	348,989.3286
Easting (SFT)	965,697.1008
Elevation (SFT)*	361.790
Convergence Angle	0 40 33.2098867
Scale Factor	0.999949357
Elevation Adjust. Factor	0.9999826947
Combined Adjust. Factor	0.9999320526

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	17	11.5106136
Longitude	93	9	41.4977364
Ellipsoid Height (M):	81.194		
Geoid Height (M):	-29.080		

Location Description

TO REACH THE STATION MARK FORM THE JUNCTION OF STAT HIGHWAY 64 AND STATE HIGHWAY 326, ON THE WEST EDGE OF RUSSELLVILLE, GO EAST ON STATE HIGHWAY 64 FOR 1.2 MILES TO THE STATION MARK ON THE LEFT, 126.5 FEET SOUTHEAST OF THE CENTERLINE OF FAIRBANKS AVE. AND NORTHEAST 52.5 FEET OF THE CENTERLINE OF HIGHWAY 64, AND 0.6 FEET EAST OF A WITNESS POST. THE STATION MARK IS AN NGS ROD MARK DRIVEN TO REFUSAL AND IS UNDER A NGS LOGO CAP.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GUY	115	0.76	2.5
MK # 2	SE CORNER OF BLK BLDGING	4	26.21	86.0
MK # 3	SW CORNER OF BRICK BLDGING	65	23.95	78.6

AZ Mark Station	580021
Geodetic Azimuth	288 09 52
Grid Azimuth	288 50 25

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARFY
Ref Mon # 3	DQUA

Comments

NGS 1st Order Mark

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Q 299	1/1/1985	AHTD	SCOTT	71	R40024

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	68,373.6451	0.0010
Easting (M)	207,964.5920	0.0010
Elevation (M)*	201.529	

Northing (SFT)	224,322.5340	
Easting (SFT)	682,297.1656	
Elevation (SFT)*	661.183	

Convergence Angle	-1	13	23.3837832
Scale Factor	1.000000433		
Elevation Adjust. Factor	0.9999683745		
Combined Adjust. Factor	0.9999688075		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1997)		
Latitude	34	55	52.1574996
Longitude	94	6	7.2639900
Ellipsoid Height:	170.940		
Grid Northing (Meters)	68,373.6590		
Grid Easting (Meters)	207,964.5690		

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	55	52.1570640
Longitude	94	6	7.2630720
Ellipsoid Height (M):	170.843		0.0000
Geoid Height (M):	-30.686		

Location Description

THE STATION IS LOCATED ABOUT 32 KM (19.90 MI) EAST OF THE ARKANSAS-OKLAHOMA BORDER, 4 KM (2.50 MI) NORTH OF WALDRON, ABOUT 100 M (328.1 FT) NORTH OF THE JUNCTION OF U.S. HIGHWAYS 71 AND 71B, AND IN THE HIGHWAY RIGHT-OF-WAY. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 80 ON THE WEST SIDE OF WALDRON, GO NORTH ON HIGHWAY 71 FOR 3.68 KM (2.30 MI) TO THE JUNCTION OF HIGHWAY 71B ON THE RIGHT. CONTINUE NORTH ON HIGHWAY 71 FOR 0.16 KM (0.10 MI) TO THE STATION ON THE RIGHT JUST BEFORE A FIELD ENTRANCE ROAD. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 29.5 M (96.8 FT) EAST OF THE EXTENDED CENTERLINE OF THE HIGHWAY (THE HIGHWAY HERE HAS A DIVIDING ISLAND BETWEEN THE NORTH AND SOUTHBOUND LANES OF THE HIGHWAY), 19.5 M (64.0 FT) NORTH OF POWERLINE POLE NUMBER 100-91, 16.2 M (53.1 FT) EAST-SOUTHEAST OF THE SOUTH END OF A CULVERT, 9.6 M (31.5 FT) SOUTH OF THE CENTER OF THE FIELD ENTRANCE ROAD, 0.4 M (1.3 FT) WEST OF A FENCE, 0.3 M (1.0 FT) SOUTHWEST OF

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	PINNACLE
Ref Mon # 2	MENAPORT
Ref Mon # 3	ABBOTT

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Q 313	1/1/1990	NOAA	SHARP	63	050064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	219,685.8131	
Easting (M)	447,994.4380	
Elevation (M)*	114.362	
Northing (SFT)	720,752.5385	
Easting (SFT)	1,469,795.0853	
Elevation (SFT)*	375.203	

Convergence Angle	0	18	39.5060047
Scale Factor			1.000016562
Elevation Adjust. Factor			0.9999820532
Combined Adjust. Factor			0.9999986149

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	44.1838440
Longitude	91	27	56.1167172
Ellipsoid Height (M):	85.980		
Geoid Height (M):	-28.330		

Location Description

THE STATION IS LOCATED ABOUT 2 KM (1.25 MI) SOUTHEAST OF HARDY, ABOUT MIDWAY DOWN A LOW HILL SLOPING EAST AND IN THE HIGHWAY RIGHT-OF-WAY BETWEEN THE HIGHWA AND A RAILROAD TRACK. OWNERSHIP--ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62 AND 63 IN HARDY, GO SOUTHEASTERLY ON HIGHWAY 63 FOR 2.1 KM (1.3(MI) TO THE STATION ON THE RIGHT ABOUT 0.16 KM (0.10 MI) BEFORE A RIVER CROSSING. THE STATION IS SET FLUSH IN THE TOP OF A 0.3 M (1.0 FT) X 0.6 M (2.0 FT) AREA OF EXPOSED ROCK OUTCROP PROJECTING 12 CM ABOVE GROUND. IT IS 23.9 M (78.4 FT) WEST-NORTHWEST OF THE EXTENDED CENTER OF A GRAVEL ROAD LEADING NORTH, 17.1 M (56.1 FT) SOUTH-SOUTHWEST OF AND 0.4 M (1.3 FT) LOWER THAN THE HIGHWAY CENTER, 11.8 M (38.7 FT) NORTH-NORTHEAST OF AND ABOUT 4 M (13.1 FT) HIGHER THAN THE NORTH RAIL OF THE RAILROAD TRACKS (SLOPE MEASUREMENT) AND 1.1 M (3.6 FT) NORTH-NORTHEAST OF A POWERLINE POLE AND FIBERGLASS WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	Q 313A
Geodetic Azimuth	110 55 30.31504
Grid Azimuth	110 36 50.86535

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	OR-01
Ref Mon # 3	Q 313

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Q 313A	1/12/1998	AHTD	SHARP	63	050064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	219,582.8030	
Easting (M)	448,268.2870	
Elevation (M)*	112.392	
Northing (SFT)	720,414.5795	
Easting (SFT)	1,470,693.5383	
Elevation (SFT)*	368.739	

Convergence Angle	0	18	45.8804948
Scale Factor	1.000016353		
Elevation Adjust. Factor	0.9999823623		
Combined Adjust. Factor	0.9999987151		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	18	40.7936664
Longitude	91	27	45.1620864
Ellipsoid Height (M):	84.119		
Geoid Height (M):	-28.283		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND 63 IN HARDY, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 2.39 KM (1.49 MI) TO THE STATION ON THE RIGHT. THE STATION IS 14.099 METERS NORTH OF THE NORTH RAIL, 14.052 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 63 AND 0.50 METERS NORTH OFA WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMED "Q 313A 1999" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GUY POLE	122	8.54	28.0
MK # 2	RAILROAD SIGNAL LIGHT	175	21.38	70.1
MK # 3	NONE			

AZ Mark Station	Q 313
Geodetic Azimuth	290 55 36.80212
Grid Azimuth	290 36 50.86535

Area Reference Monuments (used for Processing)

Ref Mon # 1	FAA 7M9 A
Ref Mon # 2	OR-01
Ref Mon # 3	Q 313

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Q 68	1/1/1934	USC & GS	FAULKNER	25	012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	110,002.1902	0.0020
Easting (M)	374,481.7937	0.0020
Elevation (M)*	251.373	
Northing (SFT)	360,898.8523	
Easting (SFT)	1,228,612.3515	
Elevation (SFT)*	824.713	

Convergence Angle	0	9	47.9426449
Scale Factor	0.999946150		
Elevation Adjust. Factor	0.9999605529		
Combined Adjust. Factor	0.9999067051		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	19	28.3467972
Longitude	92	16	50.3858496
Ellipsoid Height (M):	223.574		
Geoid Height (M):	-27.800		

Location Description

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

S5112 PERFORMED SIMULTANEOUS STATIC GPS BETWEEN Y 68 & Q 68 IN SEPT. 2015 AND MISSED Q 68 BY -0.0356' WHEN CONSTRAINING Y 68, ARBT & ARLR. DISTANCE BETWEEN MARKS ALONG HWY. 25 IS APPROXIMATELY 17.2 MILES.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
R 143	1/1/1935	CGS	MADISON	CR 1455	090435

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	201,155.1146	0.0020
Easting (M)	248,827.1288	0.0020
Elevation (M)*	419.770	
Northing (SFT)	659,956.4052	
Easting (SFT)	816,360.3384	
Elevation (SFT)*	1,377.195	

Convergence Angle	0	58	38.5389569
Scale Factor	0.999982014		
Elevation Adjust. Factor	0.9999341287		
Combined Adjust. Factor	0.9999161439		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	36	8	5.3806056
Longitude	93	40	46.6475844
Ellipsoid Height (M):	391.766		
Geoid Height (M):	-28.004		

Location Description

DESCRIBED BY COAST AND GEODETIC SURVEY 1935
5.1 MILES NORTHEAST ALONG STATE HIGHWAY 68 FROM THE COURTHOUSE AT HUNTSVILLE, MADISON COUNTY, AT OLD ALABAM, 150 FEET EAST OF THE SOUTHEAST CORNER OF THE J.D. SMITH STORE, 105 FEET EAST OF THE JUNCTION OF THE HIGHWAY WITH A ROAD LEADING NORTH TO FORUM, 42 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 23 FEET WEST OF THE SOUTHWEST CORNER OF THE OLD ALABAM SCHOOLHOUSE AND CHURCH, AND 1 FOOT NORTH OF A CEMETERY FENCE. A STANDARD DISK, STAMPED R 143 1935 AND SET IN THE TOP OF A CONCRETE
POST. STATION RECOVERY (1971) RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1971 (ILC) BENCH MARK R 143 IS A STANDARD DISK, STAMPED R 143 1935, SET IN THE TOP OF A 4-INCH SQUARE CONCRETE MONUMENT, THAT IS FLUSH WITH THE GROUND SURFACE. IT IS 30.1 FEET SOUTHWEST OF THE NORTHWEST CORNER OF THE CHURCH BUILDING, 22.6 FEET WEST OF THE SOUTHWEST CORNER OF GF0538'THE CHURCH BUILDING AND 4.0 FEET NORTHEAST OF A FENCE AROUND A CEMETERY.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	ARHR
Ref Mon # 3	MOCS

Comments

USED AS A VERTICAL CONSTRAINT IN STATIC JOB #090435. PERFORMED PRELIMINARY NETWORK ADJUSTMENT IN TBC NOT HOLDING R 143 FIXED AND MISCLOSURE WAS ONLY -0.0052' FROM NGS PUBLISHED ELEV.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
R 315 1990		NOAA	CRAIGHEAD	63	100293, 100869

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	176,061.7203	0.0020
Easting (M)	507,852.5665	0.0030
Elevation (M)*	78.898	
Northing (SFT)	577,629.1607	
Easting (SFT)	1,666,179.6286	
Elevation (SFT)*	258.851	

Convergence Angle	0	41	43.2930142
Scale Factor			0.999952488
Elevation Adjust. Factor			0.9999876185
Combined Adjust. Factor			0.9999401071

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	35	54	51.8261688
Longitude	90	48	18.0652788
Ellipsoid Height:			50.218
Grid Northing (Meters)			176,062.0159
Grid Easting (Meters)			507,852.5220

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID 12B		
Latitude	35	54	51.8165604
Longitude	90	48	18.0636444
Ellipsoid Height (M):			51.034 0.0000
Geoid Height (M):			-27.864

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 0.64 KM. (0.40 MI.) TO THE STATION ON THE RIGHT. 16.3 METERS EAST NORTHEAST OF THE CENTER OF HWY-63, 11.5 METERS NORTH NORTHWEST OF THE CENTER OF A GRAVEL DRIVEWAY, 0.75 METERS WEST SOUTHWEST OF A METAL WITNESS POST AND 0.30 METERS SOUTH SOUTHEAST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO AN UNKNOWN DEPTH SURROUNDED BY A PLASTIC PIPE WITH A LOGO CAP STAMPED "R 315 1990" AND ENCASED IN CONCRETE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SIGN POLE	78	5.45	17.9
MK # 2	LIGHT POLE	86	18.15	59.5
MK # 3	CENTER OF CMP	200	7.15	23.5

AZ Mark Station	R 315 A
Geodetic Azimuth	341 56 22.65283
Grid Azimuth	341 14 39.34279

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK NW BASE
Ref Mon # 2	PARAPORT
Ref Mon # 3	160012

Comments

THIS STATION IS A NGS BENCH MARK. Position updated by crew S5101 during 09/2016 for job 100869.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
R 315 A	6/6/1996	AHTD	CRAIGHEAD	63	100293

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	176,061.7248
Easting (M)	507,852.5682
Elevation (M)*	78.447
Northing (SFT)	577,629.1754
Easting (SFT)	1,666,179.6342
Elevation (SFT)*	257.372

Convergence Angle	0	41	43.2930540
Scale Factor			0.999952488
Elevation Adjust. Factor			0.9999876893
Combined Adjust. Factor			0.9999401778

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	54	51.8167080
Longitude	90	48	18.0635760
Ellipsoid Height (M):	49.763		
Geoid Height (M):	-28.684		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 63 AND STATE HIGHWAY 230 WEST IN THE SMALL TOWN OF BONO JUST NORTH OF JONESBORO, GO NORTHWESTERLY ON HWY-63 FOR 1.29 KM. (0.80 MI.) TO THE STATION ON THE RIGHT IN AN OPEN AREA BETWEEN THE HIGHWAY AND THE RAILROAD TRACK. 15.08 METERS EAST NORTHEAST OF THE CENTER OF HWY-63, 11.72 METERS WEST SOUTHWEST OF THE SOUTHWEST RAIL AND 0.50 METERS WEST SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "R 315 A 1996" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	28	26.66	87.5
MK # 2	POWER POLE	122	36.25	118.9
MK # 3	TELEPHONE JUNCTION BOX	251	47.86	157.0

AZ Mark Station	R 315
Geodetic Azimuth	161 56 18.16446
Grid Azimuth	161 14 39.34279

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK NW BASE
Ref Mon # 2	PARAPORT
Ref Mon # 3	160012

Comments

ELEVATION BY 3-WIRE USING NGS BENCH MARK "R 315 1990"
ELEVATION = 78.898 METERS.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
R 34	1/1/1934	CGS	BENTON	N/A	090445,090558

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	234,503.5875	0.0040
Easting (M)	179,931.0897	0.0040
Elevation (M)*		

Northing (SFT)	769,367.1867	
Easting (SFT)	590,323.9168	
Elevation (SFT)*		

Convergence Angle	-1	25	40.8732306
Scale Factor			1.000042815
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (2011)
Latitude	36	25	20.1457236
Longitude	94	27	14.6469420
Ellipsoid Height:			343.599
Grid Northing (Meters)			234,503.5947
Grid Easting (Meters)			179,931.0847

Vertical Determined By:	2nd Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	36	25	20.1454968	
Longitude	94	27	14.6467332	
Ellipsoid Height (M):	343.599			
Geoid Height (M):	-28.186			

Location Description

DESCRIBED BY US GEOLOGICAL SURVEY 1968
AT GRAVETTE. AT GRAVETTE, BENTON CO, ON STATE HWY 72 AT THE CROSSING OF HWY 72 AND THE ST. LOUIS-SAN FRANCISCO RAILWAY AND THE KANSAS CITY SOUTHERN RAILWAY, AT A CONC CUL, IN TOP OF THE S HEADWALL, 15 FT S AND 101 FT W OF THE MAIN LINE. A STANDARD DISK, STAMPED R 34 1934.

STATION RECOVERY (2012)

RECOVERY NOTE BY COSTELLO LAND SURVEYING 2012 (TC)
STATION IS 15.5 FEET SOUTH OF CENTER LINE OF ROAD (NW MAIN ST), 101 FEET WEST OF RAILROAD TRACK.

STATION RECOVERY (2015)

RECOVERY NOTE BY ARKANSAS DEPARTMENT OF TRANSPORTATION 2015 (JDH)
RECOVERED IN GOOD CONDITION.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
R 79	1/1/1935	CGS	GARLAND	70	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	603,926.5369	
Easting (M)	308,360.1250	
Elevation (M)*	139.361	
Northing (SFT)	1,981,382.3131	
Easting (SFT)	1,011,678.1768	
Elevation (SFT)*	457.220	

Convergence Angle	0	33	30.6553158
Scale Factor			0.999951572
Elevation Adjust. Factor			0.9999781302
Combined Adjust. Factor			0.9999297033

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	30	4.4654256
Longitude	92	59	52.4401872
Ellipsoid Height (M):	112.330		
Geoid Height (M):	-26.980		

Location Description

THE STATION IS LOCATED ABOUT 3 MI (4.8 KM) EAST OF HOT SPRINGS, 0.3 MI (0.5 KM) WEST OF MORNING STAR, BETWEEN SPRING ROAD AND THE RAILROAD. OWNERSHIP--ROAD OR RAILROAD RIGHT-OF-WAY. TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 70 (E. GRAND AV) AND U.S. HIGHWAY 270 BUSINESS (MALVERN AV) IN HOT SPRINGS, GO NORTHEAST FOR 0.85 MI (1.37 KM) ON HIGHWAY 70 TO AN INTERSECTION. TURN RIGHT AND GO EASTERLY FOR 1.05 MI (1.69 KM) ON SPRING ROAD TO A RAILROAD CROSSING. CONTINUE STRAIGHT AHEAD AND GO EASTERLY FOR 1.5 MI (2.4 KM) ON SPRING ROAD TO THE MORNING STAR MISSIONARY BAPTIST CHURCH ON LEFT. CONTINUE STRAIGHT AHEAD AND GO EAST FOR 0.15 MI (0.24 KM) ON SPRING ROAD TO THE STATION ON RIGHT. THE STATION IS A CGS BENCH MARK DISK SET INTO THE TOP OF A 15-CM SQUARE CONCRETE MONUMENT PROJECTING 4 CM ABOVE GROUND. LOCATED 59.7 M (195.9 FT) EAST-NORTHEAST FROM A UTILITY POLE, 32.5 M (106.6 FT) WEST-SOUTHWEST FROM UTILITY POLE NUMBER 17 (3383Z 200 05 374 853) WITH TWO GUY WIRES, 13.7 M (44.9 FT) NORTH-NORTHWEST OF THE NORTH RAIL OF RAILROAD, 10.4 M (34.1 FT) SOUTH AND ACROSS ROAD FROM A FIRE HYDRANT, 5.5 M (18.0 FT) SOUTH-SOUTHEAST FROM THE APPROXIMATE CENTER OF SPRING

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ROCKPORT	1/1/1990	NGS	PULASKI	N/A	R60101,061303

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	640,178.9171	
Easting (M)	376,418.2380	
Elevation (M)*	165.111	
Northing (SFT)	2,100,320.3305	
Easting (SFT)	1,234,965.5025	
Elevation (SFT)*	541.701	

Convergence Angle	0	8	39.4219097
Scale Factor			1.000015180
Elevation Adjust. Factor			0.9999740894
Combined Adjust. Factor			0.9999892690

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	49	54.4668312	
Longitude	92	15	28.0517292	
Ellipsoid Height (M):	138.190			
Geoid Height (M):	-26.860			

Location Description

THE STATION IS LOCATED ON THE NORTH SIDE OF LITTLE ROCK, AT THE NORTH LITTLE ROCK MUNICIPAL AIRPORT, NEAR THE WEST SIDE OF THE AIRFIELD, BETWEEN THE MAIN RAMP AND RUNWAY 17-35 AND JUST EAST OF THE AIRPORT OFFICE. OWNERSHIP--CITY OF NORTH LITTLE ROCK, 8230 REMOUNT ROAD, NORTH LITTLE ROCK AR 72118. MAILING ADDRESS IS PO BOX 9113, NORTH LITTLE ROCK AR 72119. AIRPORT MANAGER IS JUDY WHEELER, PHONE 501-835-5654. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAY 176 (CAMP ROBINSON ROAD) IN NORTH LITTLE ROCK (EXIT 152), GO NORTH ON HIGHWAY 176 FOR 3.22 KM (2.00 MI) TO A PAVED Y-JUNCTION. TURN RIGHT, NORTH ON REMOUNT ROAD FOR 2.41 KM (1.50 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE RIGHT. TURN RIGHT, EAST ON THE ROAD FOR 0.20 KM (0.10 MI) TO THE TERMINAL AND A GATE ON THE LEFT. TURN LEFT, NORTH, PASSING THROUGH THE GATE FOR 0.11 KM (0.05 MI) TO THE APRON. TURN RIGHT, EAST ACROSS THE APRON FOR 0.11 KM (0.05 MI) TO A TAXIWAY. TURN RIGHT, SOUTH ALONG THE TAXIWAY FOR 0.16 KM (0.10 MI) TO THE STATION ON THE LEFT. THE STATION IS SET IN THE TOP OF A 1.2 M (3.9 FT) X 0.3 M (1.0 FT) AREA OF EXPOSED ROCK OUTCROP PROJECTING 5 CM ABOVE

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	CKPORT AZ MK (EJ2073)
Geodetic Azimuth	355 34 02.9
Grid Azimuth	355 42 42.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Elev. is 3rd Order published by NGS-541.6 feet doesn't agree w/ levels ran. 3-Wire Levels ran by crew S5104, S5108, & S5113 from NGS Marks J 290 & K 290 (430-40 on RR track) to G10 & RV159 (67/167 - 440 on RR track) in May 07 in job R60101.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ROGPORT	1/2/1989	NOAA	BENTON	62	090064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	227,407.1701	
Easting (M)	210,575.3310	
Elevation (M)*	412.613	
Northing (SFT)	746,085.0239	
Easting (SFT)	690,862.5651	
Elevation (SFT)*	1,353.714	

Convergence Angle	-1	13	41.6989629
Scale Factor	1.000028621		
Elevation Adjust. Factor	0.9999352518		
Combined Adjust. Factor	0.9999638709		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	21	53.0335620
Longitude	94	6	38.7379080
Ellipsoid Height (M):	384.537		
Geoid Height (M):	-28.076		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF ROGERS, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 1.34 KM (0.83 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ENTRANCE ROAD PASSING THE AIRPORT OFFICE ON THE RIGHT FOR 0.28 KM (0.17 MI) TO A LOCKED GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON FOR 0.06 KM (0.04 MI) TO A TAXIWAY. TURN LEFT AND GO SOUTHWEST ON THE TAXIWAY FOR 0.38 (0.24 MI) TO AND THE STATION ACROSS THE RUNWAY AND ON LINE WITH THE RUNWAY END. THE STATION IS 42.1 METER WEST OF OF THE CENTER OF RUNWAY END 1, 27.1 METERS WEST-NORTHWEST OF THE SOUTHWET CORNER OF THE RUNWAY, 24.2 METERS WEST OF THE WESTERMOST THRESHOLD LIGHT AND 6.2 METERS NORTHWEST OF THE CENTER OF THE WEST REIL. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP STAMPED "ROGPORT 1989".

NOTE " DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER".

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	ROGPORT AZ MK
Geodetic Azimuth	17 27 01.672238
Grid Azimuth	18 40 43.415437

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER. NGS ESTABLISHED ELEVATION ON THIS STATION.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ROGPORT AZ MK	1/2/1989	NOAA	BENTON	62	090064

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	228,037.7441	
Easting (M)	210,788.5080	
Elevation (M)*	412.532	
Northing (SFT)	748,153.8321	
Easting (SFT)	691,561.9633	
Elevation (SFT)*	1,353.449	

Convergence Angle	-1	13	37.0394989
Scale Factor	1.000029987		
Elevation Adjust. Factor	0.9999352645		
Combined Adjust. Factor	0.9999652495		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	22	13.6337772
Longitude	94	6	30.7305684
Ellipsoid Height (M):	384.452		
Geoid Height (M):	-28.080		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 62, 62B AND STATE HIGHWAY 94, LOCATED ON THE NORTH SIDE OF ROGERS, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 1.34 KM (0.83 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON AIRPORT ENTRANCE ROAD PASSING THE AIRPORT OFFICE ON THE RIGHT FOR 0.28 KM (0.17 MI) TO A LOCKED GATE. PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON FOR 0.06 KM (0.04 MI) TO A TAXIWAY. TURN RIGHT AND GO NORTHWEST ON THE TAXIWAY FOR 0.27 KM (0.17 MI) TO A TAXIWAY. TURN LEFT AND GO WESTERLY CROSSING THE RUNWAY FOR 0.12 KM (0.07 MI) TO THE STATION ON THE RIGHT LOCATED NORTH AND WEST OF THE INTERSECTION OF THE RUNWAY AND THE REMAINS OF A FORMER EAST-WEST RUNWAY. THE STATION IS 69.4 METERS SOUTHWEST OF THE SECOND RUNWAY LIGHT NORTH OF THE INTERSECTION, 47.4 METERS WEST OF THE WEST EDGE OF RUNWAY, AND 11.5 METERS WEST-NORTHWEST OF A 90 BEND IN A SHALLOW DITCH. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP STAMPED "ROGPORT AZ MK 1989" NOTE "DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	ROGPORT
Geodetic Azimuth	197 27 06.42029
Grid Azimuth	198 40 43.41544

Area Reference Monuments (used for Processing)

Ref Mon # 1	CASSPORT
Ref Mon # 2	V 26
Ref Mon # 3	FLINT

Comments

DO NOT GO ON AIRPORT WITHOUT CONTACTING FRANK SPEER. NGS ESTABLISHED ELEVATION ON THIS STATION.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ROUCH	1/1/1990	UALR	PULASKI	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	628,284.9840	
Easting (M)	368,780.5640	
Elevation (M)*	113.200	
Northing (SFT)	2,061,298.3183	
Easting (SFT)	1,209,907.5671	
Elevation (SFT)*	371.390	

Convergence Angle	0	11	26.7791821
Scale Factor			0.999990847
Elevation Adjust. Factor			0.9999822355
Combined Adjust. Factor			0.9999730827

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	43	27.7748868	
Longitude	92	20	27.0691620	
Ellipsoid Height (M):	86.600			
Geoid Height (M):	-26.560			

Location Description

THE STATION IS LOCATED IN LITTLE ROCK, AT THE UNIVERSITY OF ARKANSAS AT LITTLE ROCK, ON TOP OF THE ENGINEERING-TECHNICAL SCIENCE BUILDING, NEAR THE TOP CENTER OF THE EAST WALL OF BUILDING. OWNERSHIP--UNIVERSITY OF ARKANSAS AT LITTLE ROCK, 2801 SOUTH UNIVERSITY AVENUE, LITTLE ROCK AR 72204. CONTACT IS PROFESSOR JUD ROUCH, PHONE 501-569-8204 OR 565-0630 (HOME). TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 30 AND UNIVERSITY AVENUE (EXIT 132) IN SOUTHWEST LITTLE ROCK, GO NORTH FOR 2.85 MI (4.59 KM) ON UNIVERSITY AVENUE TO A CROSS STREET, ASHER AVENUE. CONTINUE STRAIGHT AHEAD AND GO NORTH FOR 0.65 MI (1.05 KM) ON UNIVERSITY AVENUE TO THE JUNCTION OF 28TH STREET. TURN RIGHT AND GO EAST FOR 0.2 MI (0.3 KM) ON 28TH STREET TO A PAVED ROAD RIGHT. TURN RIGHT AND GO SOUTH FOR 0.07 MI (0.11 KM) ON THE PAVED ROAD TO A PAVED ROAD RIGHT. TURN RIGHT AND GO WESTERLY THEN SOUTHERLY FOR 0.25 MI (0.40 KM) ON THE PAVED ROAD ALONG PERIMETER OF PARKING LOT TO THE WEST SIDE OF BUILDING, A LOADING DOCK AND END OF TRUCK TRAVEL. UNIVERSITY PERSONNEL WILL PROVIDE ESCORT TO THE STATION SITE. STATION MONUMENTATION CONSISTS OF A 1.5-INCH METAL PIPE WELDED TO TWO STEEL

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
RP 05	2/7/1997	MoDOT	MO / RIPLEY	N/A	NA

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	106.140	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	348.228	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999833435
Combined Adjust. Factor		#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

THE STATION IS LOCATED ABOUT 4.0 KM (2.50 MI) SOUTHWEST OF DONIPHAN, MO., AND ABOUT 0.88 KM (0.55 MI) SOUTH-SOUTHWEST OF THE JUNCTION OF STATE HIGHWAYS 21 AND 142, NEAR AND EAST OF THE JUNCTION OF STATE HIGHWAY 21 AND STATE ROUTE A, IN THE EAST QUADRANT, JUST WEST OF A FENCE AND WITNESS POST. OWNERSHIP--STATE OF MISSOURI. THE STATION IS AN ALUMINUM DNR GEOGRAPHIC REFERENCE SYSTEM SURVEY MARKER SET IN THE TOP OF A ROUND CONCRETE MONUMENT. IT IS, 17.7 M (58.1 FT) SOUTHEAST OF THE HIGHWAY 21 CENTERLINE, 16.5 M (54.1 FT) NORTHEAST OF THE ROUTE A CENTERLINE, 9.1 M (29.9 FT) SOUTH-SOUTHWEST OF A UTILITY POLE, 6.9 M (22.6 FT) NORTH OF A CORNER FENCE POST, 0.9 M (3.0 FT) WEST OF A FENCE AND WITNESS POST, AND THE MONUMENT IS ABOUT LEVEL WITH ROUTE A AND FLUSH WITH THE GROUND SURFACE. BY R.G. HAYES.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
RUSSPORT	1/1/1990	NGS	POPE	331	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	103,361.4700
Easting (M)	300,610.9350
Elevation (M)*	118.000
Northing (SFT)	339,111.7562
Easting (SFT)	986,254.3759
Elevation (SFT)*	387.138
Convergence Angle	0 38 8.1513686
Scale Factor	0.999951850
Elevation Adjust. Factor	0.9999814823
Combined Adjust. Factor	0.9999333332

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 15 36.1472976
Longitude	93 5 32.2130904
Ellipsoid Height (M):	88.900
Geoid Height (M):	-29.040

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ABOUT 2 KM (1.25 MI) SOUTHEAST OF RUSSELLVILLE, AT THE RUSSELLVILLE REGIONAL AIRPORT, NEAR MIDFIELD, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF THE PARALLEL TAXIWAY AND A CONNECTOR TAXIWAY LEADING TO SOME HANGARS. OWNERSHIP--CITY OF RUSSELLVILLE, CITY HALL, RUSSELLVILLE AR, PO BOX 128, RUSSELLVILLE AR 72801. AIRPORT MANAGER IS BILL SHELTON, PHONE 501-967-1227 (AIRPORT), 331-3318 (HOME). ASSISTANT MANAGER IS SHAWN WALTER, PHONE 890-5070. CALL IN ADVANCE TO OPEN THE LOCKED GATE. TO REACH THE STATION FROM THE OVERPASS AT THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE HIGHWAYS 64 AND 331 (EXIT 84) ON THE EAST SIDE OF RUSSELLVILLE, GO SOUTH ON HIGHWAYS 64 AND 331 FOR 0.48 KM (0.30 MI) TO A PAVED T-JUNCTION. TURN RIGHT, WEST ON HIGHWAYS 64 AND 331 FOR 0.74 KM (0.45 MI) TO A PAVED CROSSROAD. TURN LEFT, SOUTH ON HIGHWAY 331 (ELMIRA AVENUE) FOR 1.53 KM (0.95 MI) TO A PAVED CROSSROAD. TURN LEFT, EAST ON EAST 16TH STREET FOR 0.40 KM (0.25 MI) TO A PAVED ROAD RIGHT. TURN RIGHT, SOUTHEAST ON THE AIRPORT ENTRANCE ROAD FOR 0.38 KM (0.25 MI) TO A DRIVEWAY AND A PARKING LOT ON THE LEFT. TURN LEFT, EAST ON THE DRIVEWAY AND THROUGH THE

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	SSPORT AZ MK (FG1962)
Geodetic Azimuth	074 25 48.1
Grid Azimuth	075 03 56.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
S 197	1/1/1960	CGS	OUACHITA	278	070258, 001914

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	505,443.4082	
Easting (M)	328,853.3610	
Elevation (M)*	37.882	
Northing (SFT)	1,658,275.5817	
Easting (SFT)	1,078,913.0685	
Elevation (SFT)*	124.285	

Convergence Angle	0	25	44.8526964	
Scale Factor			0.999945100	
Elevation Adjust. Factor			0.9999940551	
Combined Adjust. Factor			0.9999391554	

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	2nd Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	36	53.8343856	
Longitude	92	46	0.1901064	
Ellipsoid Height (M):			11.680	
Geoid Height (M):			-26.210	

Location Description

THE STATION IS LOCATED ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, AT HARRELL FIELD AIRPORT, NEAR THE CENTER OF THE SOUTH END OF THE AIRFIELD, NEAR THE SOUTHWEST CORNER OF A SMALL RECTANGULAR GRASS ISLAND WITH TWO FUEL PUMPS LOCATED NEAR THE CENTER OF THE APRON. OWNERSHIP--CITY OF CAMDEN, FBO IS JIM ADVANT, PO BOX 26, CAMDEN AR 71701, PHONE 501-574-2642. TO REACH THE STATION FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAY 79 AND STATE HIGHWAY 4 ABOUT 5 KM (3.10 MI) NORTHEAST OF CAMDEN, GO NORTHEAST ON HIGHWAY 79 FOR 0.48 KM (0.30 MI) TO AIRPORT ROAD ON THE RIGHT. TURN RIGHT, EASTERLY ON THE ROAD FOR 0.13 KM (0.10 MI) TO A PAVED ROAD RIGHT JUST BEFORE BUILDING NUMBER 3 ON THE RIGHT. TURN RIGHT, SOUTH-SOUTHWEST ON THE ROAD FOR 0.08 KM (0.05 MI) TO A PARKING LOT ON THE SOUTH SIDE OF THE BUILDING AND A GATE IN THE PIPE FENCE ON THE LEFT AT THE APRON. TURN LEFT, EAST-SOUTHEAST, PASSING THROUGH THE GATE AND ACROSS THE APRON FOR 0.18 KM (0.10 MI) TO THE STATION ON THE RIGHT JUST BEFORE THE JUNCTION OF A TAXIWAY. THE STATION IS SET IN THE TOP OF A 25 CM ROUND CONCRETE POST RECESSED 2 CM BELOW THE GROUND SURFACE. IT IS 43.1 M (141.4 FT) SOUTHEAST OF A

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
S 25	1/1/1932	CGS	RANDOLPH	LD HWY	100877

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD83 (2011)

Northing (M)	225,526.4135	0.0020
Easting (M)	511,397.1992	0.0020
Elevation (M)*	85.440	
Northing (SFT)	739,914.5750	
Easting (SFT)	1,677,808.9777	
Elevation (SFT)*	280.314	

Vertical Determined By:	None			
Elevation Datum:				
Geoid Datum:	GEOID12B			
Latitude	36	21	35.1116640	
Longitude	90	45	31.8238200	
Ellipsoid Height (M):	56.920			0.0140
Geoid Height (M):	-28.557			

Convergence Angle	0	43	20.0278231
Scale Factor	1.000027440		
Elevation Adjust. Factor	0.9999865919		
Combined Adjust. Factor	1.0000140315		

Location Description

THE STATIONS IS LOCATED AT THE SOUTHEAST CORNER OF THE REYNO ELEMENTARY SCHOOL GROUND WHICH IS IN THE SOUTHERN EDGE OF REYNO. IT IS ABOUT 225 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SCHOOL AND 2 FEET NORTHWEST OF THE EDGE OF THE SIDEWALK. IT IS A STANDARD U.S. COAST AND GEODETIC BENCH MARK DISK SET IN THE TOP OF AND 8 IN X 8 IN CONCRETE POST WHICH PROJECTS 2 IN AND THE DISK IS STAMPED S 25 1932. A TRAVERSE WAS MADE TO TRANGULATION STATION REYNO, AND THE DISTANCE WAS FOUND TO BE 26.25 FEET OR 8.001 METERS SOUTHWEST OF THE STATION.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MODP
Ref Mon # 2	ARPG
Ref Mon # 3	ARBT

Comments

Elevation from NGS datasheet.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
S 301	1/1/1985	NGS	POLK	71	040488

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	590,199.8468	
Easting (M)	181,371.0640	
Elevation (M)*	358.859	
Northing (SFT)	1,936,347.3307	
Easting (SFT)	595,048.2325	
Elevation (SFT)*	1,177.357	

Convergence Angle	-1	19	49.1980229
Scale Factor	0.999934428		
Elevation Adjust. Factor	0.9999436865		
Combined Adjust. Factor	0.9998781182		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	21	31.0873752
Longitude	94	22	36.8656680
Ellipsoid Height (M):	329.631		
Geoid Height (M):	-29.228		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 246, SOUTH OF MENA, GO SOUTH ON HIGHWAY 71 FOR 1.5 MILES TO THE STATION MARK ON THE LEFT, EAST 47.0 FEET OF THE CENTERLINE OF HIGHWAY 71,, SOUTH 20.8 FEET OF THE CENTERLINE OF COUNTY ROAD 482, AND NORTH 1.0 FOOT OF A WITNESS POST. THE STATION MAK IS A STAINLESS STEEL ROD DRIVEN 4.92 FEET TO REFUSAL AND SET IN AN NGS LOGO CAP STAMPED "S 301 1985"

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	MENAPORT AZ
Ref Mon # 2	DQUA
Ref Mon # 3	OKHV

Comments

3-Wire Elevations were ran from NGS Q 301, R 301, & S301 in Job # 040488 by S5102 in Oct 2007.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
S 320	4/4/2007	NGS	PULASKI	N/A	061752

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	622,686.8646	0.0030
Easting (M)	362,941.4302	0.0030
Elevation (M)*		

Northing (SFT)	2,042,931.8216	
Easting (SFT)	1,190,750.3422	
Elevation (SFT)*		

Convergence Angle	0	13	34.7434009
Scale Factor			0.999980597
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	40	25.4168796
Longitude	92	24	15.7029804
Ellipsoid Height (M):	68.206		
Geoid Height (M):	-26.501		

Location Description

'DESCRIBED BY NATIONAL GEODETIC SURVEY 2007
THE MARK IS LOCATED ABOUT 4.0 MILES SOUTHWEST OF LITTLE ROCK ARKANSAS.
OWNERSHIP--ROAD RIGHT-OF-WAY. AT AHTD CENTRAL SHOPS

TO REACH FROM THE INTERSECTION OF US INTERSTATE 430 AND STATE HIGHWAY
5 IN SOUTHWEST LITTLE ROCK, GO SOUTH ON HIGHWAY 5 FOR 0.85 MILES TO A
STOPLIGHT AT BASELINE ROAD, (HIGHWAY 338) TURN LEFT ON BASELINE ROAD
AND GO 0.9 MILES TO A PAVED ROAD ON THE LEFT,(ENTRANCE TO AHTD SHOPS)
TURN LEFT AND GO 0.2 MILES TO SECOND DRIVE ON THE RIGHT, TURN RIGHT
AND GO 0.05 MILES TO THE STATION ON THE LEFT.

19.3 METERS WEST OF BEND IN THE CURB FOR PARKING AREA, 11.7 METERS
WEST OF THE CENTER OF CONCRETE DRAINAGE DITCH, 11.0 METERS EAST OF THE
DK2846'MIDDLE OF A CONCRETE CURB, AND 0.3 METERS

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SALIPORT	1/1/1990	NGS	SALINE	I30	061039,60209,061256

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	610,381.0900
Easting (M)	344,279.6760
Elevation (M)*	96.995
Northing (SFT)	2,002,558.6261
Easting (SFT)	1,129,524.2370
Elevation (SFT)*	318.225
Convergence Angle	0 20 23.4147888
Scale Factor	0.999960755
Elevation Adjust. Factor	0.9999847785
Combined Adjust. Factor	0.9999455341

Vertical Determined By:	3rd Order - Digital Level
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	34 33 43.0724412
Longitude	92 36 25.8766236
Ellipsoid Height (M):	70.580
Geoid Height (M):	-26.380

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ABOUT 5.4 MI (8.7 KM) WEST OF BAUXITE, 3.7 MI (6.0 KM) NORTHEAST OF HASKELL, 0.8 MI (1.3 KM) SOUTHWEST OF BENTON, AT THE SALINE COUNTY AIRPORT. OWNERSHIP--SALINE COUNTY, COUNTY COURTHOUSE, BENTON AR 72015. AIRPORT MANAGER IS SETH OTTS, TELEPHONE 501-776-2102. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 30 AND STATE HIGHWAYS 5/35 AT EXIT 117, GO 0.6 MI (1.0 KM) SOUTHWESTERLY ON INTERSTATE HIGHWAY 30 TO EXIT 116. EXIT THE INTERSTATE HIGHWAY AND GO 0.4 MI (0.6 KM) ON LOOP ROAD/I-30 OVERPASS. IMMEDIATELY AFTER CROSSING OVERPASS TURN RIGHT, SOUTHWEST ON FAIRFIELD ROAD FOR 0.3 MI (0.5 KM) TO A PAVED ROAD LEFT. TURN LEFT, SOUTH ON AIRLANE ROAD FOR 0.08 MI (0.13 KM) TO A PAVED ROAD RIGHT. TURN RIGHT, SOUTHWESTERLY, ON AIRPORT ENTRANCE ROAD FOR 0.1 MI (0.2 KM) PASSING TERMINAL BUILDING/HANGAR TO A LOCKED GATE ON THE LEFT. TURN LEFT AND PASS THROUGH THE GATE AND GO 0.05 MI (0.08 KM) TO AN APRON AND SOUTHWEST CORNER OF TERMINAL BUILDING. TURN LEFT, EAST FOR 0.05 MI (0.08 KM) ANGLING NORTHEASTERLY ACROSS APRON TO THE NORTH FENCE AND STATION. THE STATION IS A PUNCH HOLE IN THE TOP OF A STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	ALIPORT AZ MK (EJ2076)
Geodetic Azimuth	179 30 55.3
Grid Azimuth	179 51 18.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire elevatinos were ran from NGS Benton North Meridian in Job 061039 by B&F in 2003. Digital Levels were ran by crew S5101 in March 2010 from NGS mark Saliport AZ in job 061256.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SALIPORT AZ MK	1/1/1990	NGS	SALINE	I30	061039,061256

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	609,770.2479	
Easting (M)	344,281.2200	
Elevation (M)*	93.407	
Northing (SFT)	2,000,554.5550	
Easting (SFT)	1,129,529.3026	
Elevation (SFT)*	306.453	

Convergence Angle	0	20	23.3013487
Scale Factor	0.999959876		
Elevation Adjust. Factor	0.9999853416		
Combined Adjust. Factor	0.9999452182		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	23.2491564
Longitude	92	36	25.6739400
Ellipsoid Height (M):	66.990		
Geoid Height (M):	-26.360		

Location Description

THE STATION IS LOCATED ABOUT 8.7 KM (5.4 MI) WEST OF BAUXITE. 5.9 KM (3.7 MI) NORTHEAST OF HASKELL, AND 1.3 KM (0.8 MI) SOUTHWEST OF BENTON. AT THE BENTON SALINE COUNTY AIRPORT. OWNERSHIP--SALINE COUNTY, COUNTY COURTHOUSE, BENTON AR 72015. AIRPORT MANGER IS JOHN WELLS, SALINE COUNTY AIRPORT. BENTON AR 72015. PHONE IS 501-778-4842. TO REACH FROM THE WEST SIDE OF THE SALINE COUNTY COURTHOUSE IN BENTON, GO SOUTH ON MARKET STREET FOR 0.17 KM (0.11 MI) TO A CROSS STREET. TURN RIGHT AND GO WEST ON SOUTH STREET (U.S.HIGHWAY 70 B) FOR 1.1 KM (0.7 MI) TO A PAVED STREET ON THE LEFT. TURN LEFT AND GO SOUTH ON JEFFERSON STREET FOR 0.23 KM (0.14 MI) TO A PAVED STREET ON THE RIGHT. TURN RIGHT AND GO WEST ON SMITH STREET FOR 0.57 KM (0.35 MI) TO A PAVED T-JUNCTION. TURN LEFT AND GO SOUTH ON AIRLANE STREET FOR 50 FT (15.2 M) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTH ON THE AIRPORT ENTRANCE ROAD FOR 0.21 KM (0.13 MI) PASSING AIRPORT OFFICE TO A LOCKED GATE. PASS THROUGH GATE AND CONTINUE SOUTH ON ENTRANCE ROAD FOR 0.06 KM (0.04 MI) TO AN APRON. TURN LEFT AND GO EAST ACROSS THE APRON FOR 150 FT (45.7 M) TO A TAXIWAY. TURN RIGHT AND GO SOUTH ON THE TAXIWAY FOR 0.56 KM

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	SALIPORT (EJ2075)
Geodetic Azimuth	359 30 55.5
Grid Azimuth	359 51 18.8

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

3-wire elevatinos were ran from NGS Benton North Meridian in Job 061039 by B&F in 2003.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SARATOGA AZ		USC&GS	HEMPSTEAD	32	30056

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)
Northing (M)	522,051.8822
Easting (M)	223,598.7240
Elevation (M)*	142.838
Northing (SFT)	1,712,765.2169
Easting (SFT)	733,590.1470
Elevation (SFT)*	468.628

Convergence Angle	-1	3	56.6522101
Scale Factor			0.999930521
Elevation Adjust. Factor			0.9999775846
Combined Adjust. Factor			0.9999081071

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NGVD 29			
Geoid Datum:				
Latitude	33	45	8.3210616	
Longitude	93	54	14.9509584	
Ellipsoid Height (M):	115.169			
Geoid Height (M):	-27.668			

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF SARATOGA, GO WEST ON HIGHWAY 355 FOR 0.08 KILOMETERS TO THE JUNCTION OF HIGHWAY 32, CONTINUE WEST ON HIGHWAY 32 FOR 0.08 KILOMETERS TO A CHURCH OF CHRIST AND THE STATION ON THE RIGHT. 0.45 METERS EAST OF THE EAST EDGE OF A CONCRETE PARKING LOT, 0.53 METERS SOUTH OF A WINTNESS POST, 20.75 METERS NORTHEAST OF THE SOUTHEAST CORNER OF THE CHURCH, 23.05 METERS SOUTHEAST OF THE NORTHEAST CORNER OF THE CHURCH, 25.20 METERS NORTH OF THE CENTER OF HIGHWAY 32. THE STATION MARK IS A BRONZE DISK SET IN SQUARE CONCRETE MONUMENT STAMPED "SARATOGA 1941 RESET 1949".

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	190	16.20	53.1
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	310002
Geodetic Azimuth	7 08 02.618340
Grid Azimuth	8 11 59.265856

Area Reference Monuments (used for Processing)

Ref Mon # 1	HOPEPORT
Ref Mon # 2	X 303 BM
Ref Mon # 3	PATE 1941

Comments

Cross Reference Job: 30088

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SEARPORT	1/1/1990	NGS	WHITE	67	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	97,765.1741
Easting (M)	424,074.9300
Elevation (M)*	79.200
Northing (SFT)	320,751.2420
Easting (SFT)	1,391,319.1662
Elevation (SFT)*	259.842
Convergence Angle	0 9 13.9323798
Scale Factor	0.999956657
Elevation Adjust. Factor	0.9999875711
Combined Adjust. Factor	0.9999442286

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 12 51.3874368
Longitude	91 44 8.0611620
Ellipsoid Height (M):	51.890
Geoid Height (M):	-27.290

Location Description

STATION IS LOCATED ABOUT 14.1 KM (8.8 MI) NORTHEAST OF MCRAE, 6.7 KM (4.2 MI) WEST-SOUTHWEST OF KENSETT, AND 3.5 KM (2.2 MI) SOUTH OF SEARCY. AT THE SEARCY MUNICIPAL AIRPORT. OWNERSHIP--CITY OF SEARCY AR 72143. AIRPORT MANAGER IS BUTCH BARKER, RTE. 7, SEARCY AR 72143. PHONE IS 501-268-9620 OR 501-268-6777. TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 67 AND 67B AND STATE HIGHWAY 367 (EXIT 42) ABOUT 4.0 KM (2.5 MI) SOUTH OF SEARCY, GO NORTH ON U.S. HIGHWAY 67B FOR 0.84 KM (0.52 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO WEST ON THE AIRPORT ENTRANCE ROAD AND NORTHWEST ON A TAXIWAY, AND WEST ACROSS AN APRON AND ALONG A CONNECTOR FOR 0.31 KM (0.19 MI) TO A TAXIWAY AND THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8 INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A NGS LOGO CAP, IT IS 24.8 M (81.4 FT) EAST OF THE TAXIWAY CENTERLINE, 24.1 M (79.1 FT) SOUTH OF THE CONNECTOR CENTERLINE AND 19.7 M (64.6 FT) SOUTHEAST OF THE CURVED PAVEMENT AT THE JUNCTION OF THE CONNECTOR AND TAXIWAY. NOTE--THE AIRPORT MANAGER IS JOHN JACOBI. THE SLEEVE DEPTH DOES NOT MEET THE SPECIFICATION FOR A CLASS A ROD MARK.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	ARPORT AZ MK (FF2156)
Geodetic Azimuth	010 35 02.8
Grid Azimuth	010 25 48.9

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SEDGWICK AZ	11/4/1993	AHTD	LAWRENCE	63	RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	190,794.1349	
Easting (M)	492,870.8420	
Elevation (M)*	81.110	
Northing (SFT)	625,963.7576	
Easting (SFT)	1,617,027.0875	
Elevation (SFT)*	266.108	

Convergence Angle	0	35	59.1690600
Scale Factor	0.999968712		
Elevation Adjust. Factor	0.9999872714		
Combined Adjust. Factor	0.9999559838		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NGVD 29		
Geoid Datum:			
Latitude	36	2	55.2850980
Longitude	90	58	9.4444140
Ellipsoid Height (M):			
Geoid Height (M):	-28.765		

Location Description

THIS STATION WAS SET BECAUSE THE ORIGINAL AZIMUTH MARK FOR THE STATION "SEDGWICK" WAS NOT RECOVERED. THE OBSERVATIONS DONE WERE BY GLOBAL POSITIONING METHODS AND NO TRAVERSE TIES WERE MADE TO "SEDGWICK" ALTHOUGH THERE IS A GOOD LINE OF SIGHT BETWEEN THE TWO POINTS. FROM THE JCT. OF HWY. 67 AND HWY. 63 IN THE TOWN OF HOXIE, GO SOUTH ON HWY. 63 FOR 0.56 KM (0.35 MILES) TO THE STATION ON THE RIGHT. THE STATION IS 11.794 METERS SOUTH OF THE CENTERLINE OF HWY. 63, 36.734 METERS SOUTHWEST OF THE SOUTHWEST CORNER OF THE "COX IMPLEMENT CO. " BUILDING, 66.87 METERS NORTH OF THE NORTHWEST CORNER OF "AMERICAN LEGION POST 335" AND 0.50 METERS NORTH OF A WITNESS POST AT THE EDGE OF A CULTIVATED FIELD. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "SEDGWICK AZ" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	PUNCH POINT IN THE TOP OF A FIRE HYDR ANT	19	24.33	79.8
MK # 2	NBC IN COMBINATION POLE	48	34.91	114.5
MK # 3	NBC IN COMBINATION POLE	327	31.84	104.5

AZ Mark Station	TRI STA (SEDGWICK NW)
Geodetic Azimuth	99 27 14.977946
Grid Azimuth	98 51 15.903779

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK
Ref Mon # 2	NEWSPORT
Ref Mon # 3	WALDENBURG

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DGWICK BASE 3	1/1/1958	USC&GS	LAWRENCE	63	100278

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	182,994.0829	
Easting (M)	502,674.2710	
Elevation (M)*	79.969	
Northing (SFT)	600,373.0870	
Easting (SFT)	1,649,190.5041	
Elevation (SFT)*	262.365	

Convergence Angle	0	39	44.9744518
Scale Factor	0.999959418		
Elevation Adjust. Factor	0.9999874504		
Combined Adjust. Factor	0.9999468689		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	58	38.7200532
Longitude	90	51	41.3953848
Ellipsoid Height (M):	52.155		
Geoid Height (M):	-27.814		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF SEDGWICK, GO SOUTHEAST ON U.S. HIGHWAY 63 FOR 0.16 KM. (0.10 MI.) TO THE STATION ON THE RIGHT. 28.207 METERS SOUTHWEST OF THE CENTER OF U.S. 63, 11.548 METERS SOUTHWEST OF THE CENTER OF "MAIN STREET", 9.119 METERS SOUTHEAST OF THE SOUTHEAST EDGE OF A CONCRETE DRIVE, 7.702 METERS NORTHWEST OF THE NORTHWEST EDGE OF A CONCRETE DRIVE, 0.735 METERS SOUTHWEST OF THE SOUTHWEST EDGE OF A CONCRETE SIDEWALK AND 1.90 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A USC&GS BRONZE DISK STAMPED "SEDGWICK SE BASE 3 1958" SET IN CONCRETE AND IS 0.10 METERS BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	LIGHT POLE	138	13.43	44.1
MK # 2	GUY POLE	210	33.48	109.8
MK # 3	FIRE HYDRANT	308	32.11	105.3

AZ Mark Station	SEDGWICK SE 3 AZ
Geodetic Azimuth	314 41 45.77124
Grid Azimuth	314 02 00.73997

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK NW BASE
Ref Mon # 2	PARAPORT
Ref Mon # 3	160014

Comments

THIS STATION IS A USC&GS BENCH MARK. FIRST ORDER, CLASS 2. ELEVATION = 79.969 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SEDGWICK NW		USC&GS	LAWRENCE	63	RX0017,001784

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	190,681.2719	
Easting (M)	493,595.3420	
Elevation (M)*	81.405	
Northing (SFT)	625,593.4729	
Easting (SFT)	1,619,404.0512	
Elevation (SFT)*	267.076	

Convergence Angle	0	36	15.9841521
Scale Factor	0.999968559		
Elevation Adjust. Factor	0.9999872251		
Combined Adjust. Factor	0.9999557845		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	2	51.3764232
Longitude	90	57	40.5474948
Ellipsoid Height (M):			
Geoid Height (M):	-28.180		

Location Description

DESCRIBED BY COAST AND GEODETIC SURVEY 1953 (RLE)THE STATION IS LOCATED ABOUT 1.5 MILES SOUTH OF THE CENTER OF THE BUSINESS DISTRICT OF WALNUT RIDGE AND ABOUT 0.7 MILE EAST OF THE CENTER OF HOXIE. IT IS NEAR THE SOUTH EDGE OF A PASTURE, OWNED BY MR. ARTHUR IVINS, 80 FEET EAST OF THE EAST END OF A GATE, 50 FEET NORTH OF THE NORTH RAIL OF A RAILROAD, 40 FEET SOUTH OF THE SOUTH BANK OF A DRAINAGE DITCH AND 2 FEET NORTH OF A FENCE LINE. IT IS STAMPED SEDGWICK NW BASE 1953 AND IS FLUSH WITH THE SURFACE OF THE GROUND.REFERENCE MARK NO. 1 IS 50 FEET NORTH OF THE NORTH RAIL OF THE RAILROAD, 30 FEET WEST OF THE WEST END OF A GATE AND 2.5 FEET NORTH OF A FENCE. IT IS STAMPED SEDGWICK NO 1 1953 AND IS FLUSH WITH THE SURFACE OF THE GROUND.REFERENCE MARK NO. 2 IS 39 FEET NORTHEAST OF THE NORTH END OF A BRIDGE ACROSS A DRAINAGE DITCH AND 2 FEET SOUTH OF A FENCE. IT IS STAMPED SEDGWICK NO 2 1953 AND PROJECTS 4 INCHES.THE DISTANCE BETWEEN REFERENCE MARK NO. 1 AND REFERENCE MARK NO. 2 IS 101.1 FEET.THE AZIMUTH MARK IS LOCATED ABOUT 35 YARDS SOUTHWEST OF A SCHOOL HOUSE, 33 FEET NORTHWEST OF THE CENTER OF U.S. HIGHWAY 63, 1 FOOT SOUTH OF A POWERLINE POLE AND 1 FOOT EAST OF A WITNESS POST. IT IS

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	SEDGWICK NO 1 1953			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	SEDGWICK AZ
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
DGWICK SE 3 AZ	10/28/1997	AHTD	LAWRENCE	63	100278

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	183,492.1269	
Easting (M)	502,159.1360	
Elevation (M)*	80.547	
Northing (SFT)	602,007.0863	
Easting (SFT)	1,647,500.4320	
Elevation (SFT)*	264.261	

Convergence Angle	0	39	33.1427671
Scale Factor	0.999959964		
Elevation Adjust. Factor	0.9999873597		
Combined Adjust. Factor	0.9999473242		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	58	55.0712064
Longitude	90	52	1.7282640
Ellipsoid Height (M):	52.728		
Geoid Height (M):	-27.819		

Location Description

TO REACH THE STATION FROM THE POST OFFICE IN THE SMALL TOWN OF SEDGWICK, GO NORTHWEST ON U.S. HIGHWAY 63 FOR 0.48 KM. (0.30 MI.) TO THE STATION ON THE RIGHT. 22.592 METERS SOUTHEAST OF THE CENTER OF A GRAVEL DRIVE, 17.204 METERS NORTHEAST OF THE CENTER OF U.S. 63, 5.173 METERS SOUTHWEST OF THE SOUTHWEST RAIL OF THE TRACK AND 1.0 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "SEDGWICK SE BASE 3 AZ" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	COMBINATION POLE WITH TBM-12	217	39.77	130.5
MK # 2	TELEPHONE POLE	336	41.45	136.0
MK # 3	TELEPHONE POLE	66	21.11	69.3

AZ Mark Station	SEDGWICK SE BASE 3
Geodetic Azimuth	134 41 33.82569
Grid Azimuth	134 02 00.73997

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEDGWICK NW BASE
Ref Mon # 2	PARAPORT
Ref Mon # 3	160014

Comments

ELEVATION ON THIS STATION WAS ARRIVED AT BY THREE WIRE LEVELING FROM STATION SEDGWICK SE BASE 3, ELEVATION = 79.969 METERS NAVD88 DATUM.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SILOAM	3/17/1997	ARGLS	BENTON	264	090147,090268

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	209,335.9670	
Easting (M)	172,867.4140	
Elevation (M)*	344.207	
Northing (SFT)	686,796.4184	
Easting (SFT)	567,149.1741	
Elevation (SFT)*	1,129.286	

Convergence Angle	-1	28	10.7342607
Scale Factor	0.999992450		
Elevation Adjust. Factor	0.9999459856		
Combined Adjust. Factor	0.9999384360		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	11	38.1189660
Longitude	94	31	32.1845484
Ellipsoid Height (M):	315.750		
Geoid Height (M):	-28.270		

Location Description

THE STATION IS LOCATED IN THE NORTHEAST PART OF SILOAM SPRINGS, ON THE NORTHERLY RIGHT-OF-WAY OF STATE HIGHWAY 264, ADJACENT TO THE GROUNDS OF THE SILOAM SPRINGS CHILD DEVELOPMENT CENTER, INSIDE A FENCED AREA AT THE SOUTHEAST CORNER OF THE CENTERS GROUNDS. TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAYS 264 AND 59 IN SILOAM SPRINGS, GO NORTH ON HIGHWAY 264 FOR 0.9 MI (1.4 KM) TO THE STATION ON THE LEFT. THE STATION IS AN ARKANSAS HARN DISK SET IN A 15 INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED 1.5 M (4.9 FT) NORTHWEST OF THE FENCE CORNER AT THE SOUTHEAST CORNER OF THE FENCED AREA, 23.3 METERS (76.4 FT) NORTHWESTERLY FROM THE CENTERLINE OF HIGHWAY 264 AND 76.8 METERS (252.0 FT) NORTHEAST OF THE BACK OF CURB ON THE EAST SIDE OF HEARTLAND STREET. ACCESS TO THE STATION IS THROUGH AN UNLOCKED GATE ON THE SOUTH SIDE OF THE FENCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTH END OF CMP UNDER SIDEWALK	85	7.90	25.9
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	040034
Geodetic Azimuth	206 34 18
Grid Azimuth	208 02 29

Area Reference Monuments (used for Processing)

Ref Mon # 1	SILOAM
Ref Mon # 2	ENES
Ref Mon # 3	SALLISAW

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SPRINGDALE	1/1/1935	NGS	WASHINGTON	NA	040272,012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,267.4509	
Easting (M)	205,366.1710	
Elevation (M)*	428.603	
Northing (SFT)	673,448.2952	
Easting (SFT)	673,772.1794	
Elevation (SFT)*	1,406.175	

Convergence Angle	-1	15	31.9035644
Scale Factor			0.999987075
Elevation Adjust. Factor			0.9999327428
Combined Adjust. Factor			0.9999198186

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Level			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	9	51.2614332	
Longitude	94	9	48.1257180	
Ellipsoid Height (M):	400.613			
Geoid Height (M):	-27.981			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U. S. HIGHWAY 71 AND STATE 'HIGHWAY 68 IN THE SOUTH EDGE OF SPRINGDALE, GO WEST ON STATE HIGHWAY FOR 1.0 MILE TO JOHNSON ROAD ON THE LEFT. TURN LEFT AND GOSOUTH ON JOHNSON ROAD FOR 0.7 MILE TO A CROSSROAD TURN RIGHT AND GO WEST ON GRAVELED ROAD FOR 0.35 MILE 'TO THE TOP OF HILL AND STATION ON RIGHT AS DESCRIBED. 'THE STATION MARK IS A STANDARD DISK STAMPED SPRINGDALE 1935. THE 'SURFACE DISK IS SET IN THE TOP OF A SQUARE CONCRETE MONUMENT THAT IS SET 15-INCHES BELOW THE GROUND SURFACE. IT IS 57 FEET WEST OF 'THE CENTER OF THE GATE, 30 FEET NORTH OF THE CENTER OF A PAVED 'ROAD, 21 FEET NORTHEAST OF THE METAL WITNESS POST AND 2 FEET NORTH OF THE FENCE.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	SPRINGDALE AZ
Geodetic Azimuth	93 18 12
Grid Azimuth	94 33 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	SPRINGDALE
Ref Mon # 2	ARHR
Ref Mon # 3	A 309

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
SPRINGDALE AZ		AHTD	NA	CR 704	040272,012111

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	205,219.6820	
Easting (M)	205,964.8200	
Elevation (M)*	416.067	
Northing (SFT)	673,291.5734	
Easting (SFT)	675,736.2470	
Elevation (SFT)*	1,365.048	

Convergence Angle	-1	15	17.9445750
Scale Factor			0.999987020
Elevation Adjust. Factor			0.9999347097
Combined Adjust. Factor			0.9999217306

Vertical Determined By:	3rd Order - Digital Level				
Elevation Datum:	NAVD 88				
Geoid Datum:					
Latitude	36	9	50.1380388		
Longitude	94	9	24.1370424		
Ellipsoid Height (M):	388.078				
Geoid Height (M):	-27.978				

Location Description

FROM THE JCT. OF HWY. 412 AND HWY. 71B IN SPRINGDALE, GO WEST ON HWY. 412 FOR 1.0 MILE TO JOHNSON ROAD, GO LEFT FOR 0.7 MILES TO A CROSSROAD AND THE STATION ON THE LEFT IN AN 8X8 CONCRETE SLAB.FOR A COMPLETE DESCRIPTION SEE USC&GS HORIZONTAL CONTROL DATA QUAD 360942 STATION 1020.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	SPRINGDALE
Geodetic Azimuth	273 18 26
Grid Azimuth	274 33 44

Area Reference Monuments (used for Processing)

Ref Mon # 1	A 309
Ref Mon # 2	ARHR
Ref Mon # 3	SPRINGDALE

Comments

3 Wire Levels were ran by crew S5101 in Dec. 09 from 1st order NGS marks A 309 and B 309.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
STELL	1/1/1986	NGS	ASHLEY	52	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	456,268.1220
Easting (M)	410,625.3950
Elevation (M)*	53.530
Northing (SFT)	1,496,939.6636
Easting (SFT)	1,347,193.4834
Elevation (SFT)*	175.623
Convergence Angle	0 3 49.5320044
Scale Factor	1.000030349
Elevation Adjust. Factor	0.9999915995
Combined Adjust. Factor	1.0000219482

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	33 10 26.1164604
Longitude	91 53 9.8949012
Ellipsoid Height (M):	27.680
Geoid Height (M):	-25.810

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ABOUT 9 KM (5.60 MI) SOUTHWEST OF HAMBURG, 9 KM (5.60 MI) NORTHEAST OF CROSSETT, AT THE STELL FIELD AIRFIELD, IN THE EAST QUADRANT OF THE JUNCTION OF RUNWAY END 5 AND THE CONNECTOR TAXIWAY TO THE RUNWAY END FROM THE APRON. OWNERSHIP--CITY OF CROSSETT. AIRPORT MANAGER IS Z.M. STELL, ROUTE 4 BOX 403, CROSSETT AR 71635, OFFICE PHONE IS 501-364-6590, HOME PHONE IS 501-364-3194. CONTACT HIM IN ADVANCE FOR PERMISSION TO OCCUPY THIS STATION AND ACCESS THROUGH THE LOCKED GATE. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 113 ON THE EAST SIDE OF CROSSETT, GO NORTH AND NORTHEAST ON HIGHWAY 113 FOR 3.88 KM (2.40 MI) TO THE JUNCTION OF STATE HIGHWAY 52 (AT THIS POINT HIGHWAY 113 TURNS NORTH). BEAR RIGHT, NORTHEAST AND EASTERLY ON HIGHWAY 52 FOR 5.64 KM (3.50 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON THE LEFT. TURN LEFT, NORTH ON THE ROAD AND ACROSS A PARKING LOT FOR ABOUT 60 M (196.8 FT) TO A GATE AT THE APRON ON THE LEFT AND THE AIRPORT OFFICE ON THE RIGHT. TURN LEFT, NORTHWEST, PASSING THROUGH THE GATE, ACROSS THE APRON AND ALONG A TAXIWAY FOR 0.19 KM (0.10 MI) TO THE JUNCTION OF THE RUNWAY AND THE STATION ON THE

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	STELL AZ MK (DK2150)
Geodetic Azimuth	051 34 28.2
Grid Azimuth	051 30 38.7

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
T 203	1/1/1960	USC & GS	COLUMBIA	US 371	070444

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	469,750.5792	0.0030
Easting (M)	284,366.1673	0.0030
Elevation (M)*	96.719	
Northing (SFT)	1,541,173.3586	
Easting (SFT)	932,958.0006	
Elevation (SFT)*	317.319	

Vertical Determined By:	2nd Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	17	21.1722576
Longitude	93	14	29.1770808
Ellipsoid Height (M):	70.261		
Geoid Height (M):	-26.458		

Convergence Angle	0	41	41.3567899
Scale Factor	1.000002414		
Elevation Adjust. Factor	0.9999848219		
Combined Adjust. Factor	0.9999872358		

Location Description

SEE NGS DATASHEET

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARHP
Ref Mon # 3	SHRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
T 290	1/1/1984	NGS	FAULKNER	365	061507

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	64,342.2509	0.0020
Easting (M)	359,495.8169	0.0020
Elevation (M)*	83.561	

Northing (SFT)	211,096.2015	
Easting (SFT)	1,179,445.8593	
Elevation (SFT)*	274.150	

Convergence Angle	0	15	28.4820944
Scale Factor	1.000004171		
Elevation Adjust. Factor	0.9999868867		
Combined Adjust. Factor	0.9999910577		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	34	54	44.8984944
Longitude	92	26	35.6066088
Ellipsoid Height (M):	56.098		
Geoid Height (M):	-27.463		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 365 AND STATE HIGHWAY 89, IN MAYFLOWER, GO EAST ON HIGHWAY 365 3.25 MILES TO THE MARK ON THE LEFT, EAST OF THE CENTERLINE OF THE HIGHWAY 70 FEET AND NORTH OF THE CENTERLINE OF A FIELD ROAD 9.5 FEET. THE MARK IS A NGS 3D ROD MARK STAMPED "1984 T 290" ON TOP OF A 16 FOOT STEEL ROD IN A NGS LOGO CAP LEVEL WITH THE SURFACE OF THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	MANHOLE	200	39.50	129.6
MK # 2	WATERLINE MARKER	78	38.00	124.7
MK # 3				

AZ Mark Station	230038
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR, P777

Comments

USED THIS NGS BM AS A CONSTRAINT IN THE FINAL STATIC NETWORK ADJUSTMENT FOR AHTD GPS POINTS 230038, 600077 & 600077A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
T 320	4/4/2007	NGS	PULASKI	N/A	061752

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	622,678.8595	0.0030
Easting (M)	363,051.5038	0.0030
Elevation (M)*		

Northing (SFT)	2,042,905.5582	
Easting (SFT)	1,191,111.4754	
Elevation (SFT)*		

Convergence Angle	0	13	32.3227324
Scale Factor			0.999980584
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	40	25.1711868	
Longitude	92	24	11.3779692	
Ellipsoid Height (M):	63.331			
Geoid Height (M):	-26.500			

Location Description

DESCRIBED BY NATIONAL GEODETIC SURVEY 2007
THE MARK IS LOCATED ABOUT 4.0 MI (6.4 KM) SOUTHWEST OF LITTLE ROCK
ARKANSAS. OWNERSHIP--ROAD RIGHT-OF-WAY. AT AHTD CENTRAL SHOPS.

TO REACH FROM THE INTERSECTION OF US INTERSTATE 430 AND STATE HIGHWAY
5 IN SOUTHWEST LITTLE ROCK, GO SOUTH ON HIGHWAY 5 FOR 0.85 MI (1.4 KM)
TO A STOPLIGHT AT BASELINE ROAD, (HIGHWAY 338) TURN LEFT ON BASELINE
ROAD AND GO 0.9 MI (1.4 KM) TO A PAVED ROAD ON THE LEFT, (ENTRANCE TO
AHTD SHOPS) TURN LEFT AND GO 0.2 MI (0.3 KM) TO SECOND DRIVE ON THE
RIGHT, TURN RIGHT AND GO 0.15 MI (0.2 KM) TO THE STATION ON THE RIGHT.
SET IN THE LOWER LEVEL PARKING LOT SOUTHEAST OF BUILDING 6-60-78 IN A
MANHOLE COVER.
DK2847'
DK2847'24.2 METERS WEST OF THE EDGE OF PARKING LOT

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB, P777

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
T 83	1/1/1935	USC&GS	Bradley	NA	001914, 020462,070418

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	505,232.4939	0.0029
Easting (M)	393,683.6961	0.0029
Elevation (M)*	62.076	
Northing (SFT)	1,657,583.6071	
Easting (SFT)	1,291,610.5930	
Elevation (SFT)*	203.661	

Convergence Angle	0	2	17.1494657
Scale Factor			0.999945039
Elevation Adjust. Factor			0.9999902583
Combined Adjust. Factor			0.9999352979

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	33	36	55.5681564
Longitude	92	4	5.0454624
Ellipsoid Height:			36.459
Grid Northing (Meters)			505,232.4892
Grid Easting (Meters)			393,683.6870

Vertical Determined By:	2nd Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	36	55.5683112	
Longitude	92	4	5.0451096	
Ellipsoid Height (M):			36.226	0.0000
Geoid Height (M):			-25.850	0.0000

Location Description

The station is located in Warren, 61.3 feet northwest of the northeast corner of the railway station, 25.9 feet north of the center of the main track, 6.8 feet south of the north edge of the streets' curb and level with the ground. The station mark is a cap stamped "T 83 1935"set in top of a concrere post.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	None
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	LTEC, 1ULM

Comments

This station is a NGS second order benchmark. SUPERCEDED GEOID HT. = -25.756m. SUPERCEDED REF. MON. (ARCM, 1ULM,S 197,K 124,700014,270005, 070003,070004,070003,T 83, N 81,070005,LROC UAM CIS CORS)
**********USED NGS ELEV. AS CONSTRAINT IN FINAL NETWORK ADJ.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
TA-05	1/1/1995	MoDOT	MO / TANEY	N/A	NA

Zone	Zone Code
Arkansas South	
Horizontal Datum	

Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	247.300	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	811.350	

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			0.9999611921
Combined Adjust. Factor			#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

THE STATION IS LOCATED ON THE NORTH SIDE OF BRANSON, MO., EAST OF U.S. HIGHWAY 65, IN THE GRASS MEDIAN JUST NORTHEAST OF THE INTERSECTION OF BUSINESS ROUTE 65 AND COMPTON DRIVE. OWNERSHIP--MISSOURI DEPARTMENT OF TRANSPORTATION. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 65, STATE HIGHWAY 248, AND BUSINESS ROUTE 65, ON THE NORTH SIDE OF BRANSON, GO SOUTH, 0.16 KM (0.10 MI) ALONG BUSINESS ROUTE 65 TO COMPTON DRIVE ON THE LEFT, AND THE STATION JUST NORTHEAST OF THE JUNCTION. THE STATION IS AN ALUMINUM DNR GEOGRAPHIC REFERENCE SYSTEM SURVEY MARKER SET IN THE TOP OF A ROUND CONCRETE MONUMENT. IT IS, 25.0 M (82.0 FT) NORTH OF AND ACROSS COMPTON DRIVE FROM A FIRE HYDRANT, 20.7 M (67.9 FT) SOUTHWEST OF A STEEL RIGHT-OF-WAY POST, 17.0 M (55.8 FT) EAST OF THE BUSINESS 65 CENTERLINE, 16.3 M (53.5 FT) NORTHEAST OF THE WEST END OF A CONCRETE CURB ON THE NORTH SIDE OF THE DRIVE, 8.5 M (27.9 FT) NORTHWEST OF A UTILITY POLE (NUMBER 221) AND WITNESS POST, 7.6 M (24.9 FT) NORTHWEST OF THE COMPTON DRIVE CURB, AND THE MONUMENT IS ABOUT 1.0 M (3.3 FT) BELOW THE BUSINESS 65 LEVEL, ABOUT 1.0 M (3.3 FT) ABOVE THE DRIVE LEVEL AND FLUSH WITH THE GROUND SURFACE. BY R.G.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
THOMASON	4/1/1994		BOONE	65	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	248,032.6456	
Easting (M)	287,210.7569	
Elevation (M)*	410.569	
Northing (SFT)	813,753.7714	
Easting (SFT)	942,290.6249	
Elevation (SFT)*	1,347.008	

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	33	44.5853952
Longitude	93	15	35.5556196
Ellipsoid Height (M):	381.312		
Geoid Height (M):	-29.258		

Convergence Angle	0	43	59.2358602
Scale Factor	1.000081635		
Elevation Adjust. Factor	0.9999355725		
Combined Adjust. Factor	1.0000172022		

Location Description

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
TRASKWOOD	1/1/1964	USC&GS	SALINE	N/A	R60093

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	597,863.1289	
Easting (M)	339,869.1910	
Elevation (M)*	98.922	
Northing (SFT)	1,961,489.2821	
Easting (SFT)	1,115,054.1708	
Elevation (SFT)*	324.547	

Convergence Angle	0	21	58.4935116
Scale Factor	0.999944556		
Elevation Adjust. Factor	0.9999844762		
Combined Adjust. Factor	0.9999290330		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	26	55.9403520
Longitude	92	39	15.7538880
Ellipsoid Height (M):	71.677		
Geoid Height (M):	-27.245		

Location Description

THE STATION IS LOCATED IN THE VILLAGE OF TRASKWOOD, ON THE GROUNDS OF THE TRASKWOOD MISSIONARY BAPTIST CHURCH. IT IS 41.758 METERS NORTHWEST OF OF THE SOUTHWEST CORNER OF THE CHURCH, 49.987 METERS SOUTHWEST OF THE CENTER OF MAIN STREET, 12.19 METERS SOUTHEAST OF THE CENTER OF SECOND STREET AND 9.04 METERSNORTHEAST OF A WITNESS POST. THE STATION MARK IS A BRONZE DISK STAMPED"TRASKWOOD 1964" SET IN A CONCRETE POST AND IS FLUSH WITH THE GROUND.THIS STATION IS A USC&GS SECOND ORDER TRIANGULATION STATION BUT THE COORDINATESABOVE ARE BASED ON AHTD GPS OBSERVATIONS AND A LEAST SQUARES NETWORK ADJUSTMENT. THESE COORDINATES WERE ESTABLISHED BY USING FIRST ORDER CONTROL POINTS IN ACCORDANCE WITH STANDARD GPS PRACTICES AND NETWORK ADJUSTMENT PROCEDURES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BRONZE DISK " TRASKWOOD NO. 1 1964 "	396	26.34	86.4
MK # 2	BRONZE DISK " TRASKWOOD NO. 2 1964 "	141	26.87	88.2
MK # 3	NONE			

AZ Mark Station	TRASKWOOD AZ.
Geodetic Azimuth	351 12 45
Grid Azimuth	351 34 43.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	SALIPORT
Ref Mon # 2	MALEPORT
Ref Mon # 3	93620004

Comments

Cross Reference Job: RX0026

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
TRASKWOOD AZ	3/22/1994	AHTD	SALINE	229	R60093

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	598,019.7228	
Easting (M)	339,846.0080	
Elevation (M)*	88.684	
Northing (SFT)	1,962,003.0406	
Easting (SFT)	1,114,978.1112	
Elevation (SFT)*	290.957	

Convergence Angle	0	21	59.0237914
Scale Factor			0.999944734
Elevation Adjust. Factor			0.9999860828
Combined Adjust. Factor			0.9999308176

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	34	27	1.0176228	
Longitude	92	39	16.7013396	
Ellipsoid Height (M):	61.480			
Geoid Height (M):	-27.248			

Location Description

FROM THE JCT. OF HWY. 229, MAIN AND FIRST STREETS IN THE VILLAGE OF TRASKWOOD SOUTHEAST OF BENTON, GO NORTHEAST ON EAST FIRST STREET FOR 57.00 METERS (187.01 FEET) TO THE STATION ON THE LEFT. THE STATION IS 9.30 METERS NORTHWEST OF THE CENTER OF EAST FIRST STREET, 11.60 METERS SOUTHEAST OF THE SOUTHEAST RAIL OF THE RAILROAD TRACKS, 57.00 METERS NORTHEAST OF THE CENTERLINE OF HWY. 229 AND 0.50 METERS SOUTHWEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "TRASKWOOD AZ." SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	216	27.40	89.9
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	TRASKWOOD 1964
Geodetic Azimuth	171 34 43.5
Grid Azimuth	171 12 44.47

Area Reference Monuments (used for Processing)

Ref Mon # 1	TRASKWOOD
Ref Mon # 2	NONE
Ref Mon # 3	NONE

Comments

Cross Reference Job: RX0026

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
TRI-COUNTY	2/11/1997	NGS	BAXTER	14	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	185,160.8539
Easting (M)	363,451.5930
Elevation (M)*	388.500
Northing (SFT)	607,481.9015
Easting (SFT)	1,192,424.1014
Elevation (SFT)*	1,274.604
Convergence Angle	0 14 9.2067682
Scale Factor	0.999962400
Elevation Adjust. Factor	0.9999390354
Combined Adjust. Factor	0.9999014377

Vertical Determined By:	GPS - Unknown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 0 5.8412952
Longitude	92 24 19.3710960
Ellipsoid Height (M):	360.440
Geoid Height (M):	-28.040

Location Description

THE STATION IS LOCATED IN THE CITY OF BIG FLAT, ON THE FORMER TRI-COUNTY SCHOOL SITE. PROPERTY IS NOW OWNED BY THE CITY. TO REACH THE STATION FROM THE OLD BIG FLAT POST OFFICE BUILDING, GO SOUTH ON STATE HIGHWAY 14 FOR 0.20 MI (0.32 KM) TO THE NEW POST OFFICE ON THE RIGHT. CONTINUE SOUTHERLY ALONG THE HIGHWAY FOR 0.10 MI (0.16 KM) TO THE STATION ON THE LEFT. THE STATION IS 263 FT (80.2 M) SOUTHEAST OF THE CENTERLINE OF HIGHWAY 14, 2.4 FT (0.7 M) NORTH OF FENCE ENCLOSING ATHLETIC FIELD, 261.6 FT (79.7 M) NORTHWEST OF THE CENTERLINE OF THE COUNTY ROAD, 130.75 FT (39.85 M) FROM THE SOUTHWEST CORNER OF THE OLD SCHOOL BUILDING, 158.42 FT (48.29 M) FROM THE NORTHWEST CORNER OF THE FIRE STATION BUILDING, 39.39 FT (12.01 M) SOUTHWEST FROM THE SOUTHWEST CORNER OF A 9 FOOT (2.7 M) SQUARE CONCRETE PAD AND 56.76 FEET (17.30 M) WEST FROM THE SOUTHWEST CORNER OF A SECOND 9 FOOT (2.7 M) SQUARE CONCRETE PAD. FOR ADDITIONAL INFORMATION CONTACT PAUL WALLA, ASPS, PHONE 501-756-2772.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
TT 3 E 1932	4/15/1905	USC & GS	UNION	275	070459

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	449,390.3043	0.0030
Easting (M)	366,722.3655	0.0030
Elevation (M)*		

Northing (SFT)	1,474,374.6900	
Easting (SFT)	1,203,154.9608	
Elevation (SFT)*		

Convergence Angle	0	11	58.3503697
Scale Factor	1.000047156		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	6	41.1846948
Longitude	92	21	23.4774396
Ellipsoid Height (M):	8.883	0.0060	
Geoid Height (M):	-26.190	0.0060	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 129S AND STATE HIGHWAY 275N AND STATE HIGHWAY 82, IN STRONG, GO NORTH ON HIGHWAY 275 1 BLOCK TO THE MARK ON THE RIGHT, IN THE SOUTHEAST CORNER OF THE INTERSECTION, 27.5' EAST OF THE C/L OF HIGHWAY 275 AND SOUTH 28' OF THE C/L OF RAILROAD STREET. THE MARK IS A STANDARD 3' CAP SET IN CONCRTETE STAMPED "TT 3 E 1932".

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	TELEPHONE POLE AND TELEPHONE BOXES	342	1.52	5.0
MK # 2				
MK # 3				

AZ Mark Station	N/A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	1ULM

Comments

GPS DERIVED ELEV. BASED ON CORS SITES ARCM & ARMO HELD FIXED IN STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
TT 30 RDM	1/1/1959	USC&GS	WHITE	36	005980

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	109,539.9601	
Easting (M)	398,744.5360	
Elevation (M)*	234.199	
Northing (SFT)	359,382.3524	
Easting (SFT)	1,308,214.3652	
Elevation (SFT)*	768.368	

Convergence Angle	0	0	28.9246317
Scale Factor			0.999946454
Elevation Adjust. Factor			0.9999632479
Combined Adjust. Factor			0.9999097039

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	19	14.5248240	
Longitude	92	0	49.7072952	
Ellipsoid Height (M):	205.912			
Geoid Height (M):	-28.286			

Location Description

FROM THE POST OFFICE IN THE TOWN OF ROSEBUD, GO EAST ON HWY. 36 FOR 6.196 KM (3.85 MILES) TO THE STATION ON THE LEFT. THE STATION IS 13.10 METERS NORTH OF THE CENTERLINE OF HWY. 36, 16.46 METERS EAST OF THE EAST GATE POST OF A FIELD ENTRANCE, 9.75 METERS WEST OF A POWERLINE POLE, 0.73 METERS NORTH OF A METAL WITNESS POST, 0.70 METERS NORTH OF AN ARKANSAS HIGHWAY DEPARTMENT GPS SURVEY WITNESS POST. THE STATION MARK IS A STANDARD BRONZE CAP STAMPED "TT 30 RDM" SET ON TOP OF A CONCRETE POST THAT IS FLUSH WITH THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SEARPORT
Ref Mon # 2	HEBEPORT
Ref Mon # 3	NONE

Comments

NGS SECOND ORDER MARK

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
TTS C 19	1/1/1933	USGS	MO / OZARK	N/A	NA

Zone	Zone Code
Arkansas South	
Horizontal Datum	

Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	323.113	

Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	1,060.080	

Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999492956
Combined Adjust. Factor		#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

THE STATION IS LOCATED NEAR THE EAST EDGE OF GAINSVILLE, MO., ABOUT 68.4 KM (42.50 MI) EAST-SOUTHEAST OF BRANSON, MO., ALONG THE SOUTH SIDE OF STATE HIGHWAY 181, AT THE INTERSECTION OF HIGHWAY 181 AND BULLDOG DRIVE, IN A GRASS ISLAND BETWEEN THE HIGHWAY AND A PARKING LOT. OWNERSHIP--STATE OF MISSOURI. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 160 AND STATE HIGHWAY 181 NEAR THE EAST EDGE OF GAINSVILLE, GO NORTHERLY, 1.4 KM (0.85 MI) ALONG HIGHWAY 181 TO THE INTERSECTION OF BULLDOG DRIVE AND THE STATION ON THE RIGHT, IN THE GRASS ISLAND. STATION IS 28.6 M (93.8 FT) EAST-NORTHEAST OF THE NORTHEAST CORNER OF A STONE BUILDING, 18.0 M (59.1 FT) SOUTH OF THE INTERSECTION CENTER, 18.0 M (59.1 FT) WEST OF A UTILITY POLE WITH TRANSFORMER, 8.1 M (26.6 FT) NORTHWEST OF A GRAVEL DRIVE CENTER, 6.1 M (20.0 FT) SOUTHWEST OF A HIGHWAY 181 SIGN POST AND WITNESS POST, AND THE MONUMENT IS ABOUT LEVEL WITH THE HIGHWAY AND PROJECTING ABOUT 15-CM ABOVE THE GROUND SURFACE. BY R.G. HAYES.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
U 18			NA	NA	090157

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	178,841.7380	
Easting (M)	294,781.0430	
Elevation (M)*		
Northing (SFT)	586,749.9354	
Easting (SFT)	967,127.4719	
Elevation (SFT)*		

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	56	23.0359272	
Longitude	93	9	58.2122520	
Ellipsoid Height (M):	611.284			
Geoid Height (M):	-28.016			

Convergence Angle	0	40	42.9360488	
Scale Factor	0.999955129			
Elevation Adjust. Factor				
Combined Adjust. Factor				

Location Description

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
U 298	1/1/1985	NGS	SEBASTIAN	N/A	040823

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	99,923.8262	0.0030
Easting (M)	191,164.9579	0.0040
Elevation (M)*		

Northing (SFT)	327,833.4198	
Easting (SFT)	627,180.3660	
Elevation (SFT)*		

Convergence Angle	-1	20	5.3181417
Scale Factor			0.999956902
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	12	43.5433140
Longitude	94	17	37.9916520
Ellipsoid Height (M):	151.986		
Geoid Height (M):	-30.513		

Location Description

DESCRIBED BY NATIONAL GEODETIC SURVEY 1985
'6.9 KM (4.25 MI) SOUTH FROM GREENWOOD.
'5.1 KM (3.15 MI) WEST ALONG STATE ROUTE 10S SPUR FROM THE SEBASTIAN 'COUNTY COURTHOUSE IN GREENWOOD, THENCE 1.8 KM (1.1 MI) SOUTH ALONG
'U.S. HIGHWAY 71, THENCE 0.16 KM (0.1 MI) EAST ALONG COUNTY ROAD 51, AT 'THE NORTHWEST CORNER OF CROSS CEMETERY, 6.3 METERS (20.5 FT) SOUTH OF 'THE APPROXIMATE CENTER OF THE COUNTY ROAD, 0.31 METERS (1.0 FT) NORTH'OF A CYCLONE FENCE OF THE CEMETERY, 17.6 METERS (57.8 FT) EAST OF A METAL CORNER FENCE POST, 3.0 METERS (10.0 FT) WEST OF THE CENTER OF A WIRE GATE LEADING TO THE CEMETERY, AND 6.9 METERS (22.7 FT) 'WEST-SOUTHWEST OF A COUNTY ROAD 51 SIGN POST. NOTE, DRIVEN TO GRADUAL
'REFUSAL. 'THE MARK IS 0.31 METERS N FROM A WITNESS POST. 'THE MARK IS ABOVE LEVEL WITH COUNTY ROAD.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650033
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARDQ
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
U 5 OFFSET	2/1/2006	AHTD	CARROLL	NA	090197

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	231,075.7081
Easting (M)	257,732.0970
Elevation (M)*	319.447
Northing (SFT)	758,120.8857
Easting (SFT)	845,576.0549
Elevation (SFT)*	1,048.051
Convergence Angle	0 55 22.5299340
Scale Factor	1.000038640
Elevation Adjust. Factor	0.9999498709
Combined Adjust. Factor	0.9999885090

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	36 24 20.7420048
Longitude	93 35 9.8039400
Ellipsoid Height (M):	291.257
Geoid Height (M):	-28.190

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 21 AND STATE HIGHWAY 221, NORTH OF BERRYVILLE, GO NORTH ON HIGHWAY 221 0.6 MILES TO COUNTY ROAD 403 AND TURN LEFT ON 403 AND GO 0.1 MILES TO COUNTY ROAD 428 AND TURN LEFT ON COUNTY ROAD 428 AND GO 1.0 MILE TO A GRAVEL DRIVE ON THE RIGHT AND TURN RIGHT AND GO 0.3 MILES TO THE STATION MARK LOCATED WEST OF RED METAL BARN. THE STATION MARK IS A STANDARD 2 1/2 INCH CAP STAMPED " U 5 OFFSET 2006" ON TOP OF A 4 FOOT REBAR DRIVEN SUBSURFACE OF THE GROUND.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	SOUTHEAST CORNER BARN	231	23.04	75.6
MK # 2	NORTHEAST CORNER BARN	282	28.77	94.4
MK # 3	LIGHT POLE	78	23.77	78.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARP2
Ref Mon # 2	ARFY
Ref Mon # 3	ARH

Comments

ELEVATION WAS DETERMINED BY 3 WIRE LEVEL RUN FROM U5 BY CREW S5102 2/1/06.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
U 79	1/1/1935	NGS	SALINE	183	061206

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	609,728.4879
Easting (M)	349,018.1190
Elevation (M)*	106.347
Northing (SFT)	2,000,417.5474
Easting (SFT)	1,145,070.2788
Elevation (SFT)*	348.907

Convergence Angle	0	18	39.3002713
Scale Factor			0.999959854
Elevation Adjust. Factor			0.9999833110
Combined Adjust. Factor			0.9999431656

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	33	22.7668860
Longitude	92	33	19.8550944
Ellipsoid Height (M):	80.101		
Geoid Height (M):	-26.246		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 183 AND STATE HIGHWAY 35, EAST OF BENTON, GO NORTH ON 183 FOR 0.8 MILES TO THE STATION MARK ON THE RIGHT,107 FEET EAST OF YUMA DRIVE. SOUTH 14.7 FEET OF THE CENTERLINE OF THE HIGHWAY AND NORTH 1.0 FOOT OF A WITNESS POST. THE STATION MARK IS A STANDARD DISK, STAMPED "U 79 1935" SET IN THE TOP OF A CONCRETE POST PROJECTING 0.3 FEET ABOVE THE GROUND.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARCM
Ref Mon # 3	DQUA

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
V 165	1/1/1955	USC&GS	NDEPENDENCI	167	050070

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	176,732.1239	
Easting (M)	440,576.2460	
Elevation (M)*	203.766	
Northing (SFT)	579,828.6432	
Easting (SFT)	1,445,457.2338	
Elevation (SFT)*	668.522	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	55	31.7980416	
Longitude	91	33	1.3370328	
Ellipsoid Height (M):	176.046			
Geoid Height (M):	-27.720			

Convergence Angle	0	15	41.8985692
Scale Factor	0.999953622		
Elevation Adjust. Factor	0.9999680235		
Combined Adjust. Factor	0.9999216470		

Location Description

TO REACH THE STATION FROM THE INDEPENDENCE - SHARP COUNTY LINE, LOCATED SOUTH OF CAVE CITY, GO SOUTH ON U.S. HIGHWAY 167 FOR 1.34 KM (0.83 KM) TO THE STATION ON THE RIGHT. THE STATION IS 16.20 METERS WEST OF THE CENTER OF U.S. HIGHWAY 167 AND 8.05 METERS EAST OF A WITNESS POST. THE STATION MARK IS A USC&GS BENCH MARK DISK STAMPED "V 165 1955" SET IN THE TOP OF 1.52 X 2.74 METER ROCK OUTCROP.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	320019
Geodetic Azimuth	174 48 35.38818
Grid Azimuth	174 32 53.49659

Area Reference Monuments (used for Processing)

Ref Mon # 1	Q 313
Ref Mon # 2	FAA 7M9 A
Ref Mon # 3	BATEPORT

Comments

Elevation established by NGS

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
V 26	1/1/1932	CGS	BENTON	71	090240, 09X007, 090472

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	215,327.1421	
Easting (M)	208,482.3437	
Elevation (M)*	409.333	
Northing (SFT)	706,452.4654	
Easting (SFT)	683,995.8226	
Elevation (SFT)*	1,342.953	

Convergence Angle	-1	14	24.4376066
Scale Factor			1.000004459
Elevation Adjust. Factor			0.9999357664
Combined Adjust. Factor			0.9999402251

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1997)
Latitude	36	15	19.7589384
Longitude	94	7	52.1851548
Ellipsoid Height:			381.130
Grid Northing (Meters)			215,327.1340
Grid Easting (Meters)			208,482.3330

Vertical Determined By:	1st Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12A		
Latitude	36	15	19.7592084
Longitude	94	7	52.1847336
Ellipsoid Height (M):	381.247		
Geoid Height (M):	-28.087		

Location Description

THE STATION IS LOCATED ABOUT 15 KM (9.30 MI) SOUTHEAST OF BENTONVILLE, 9 KM (5.60 MI) SOUTH OF ROGERS, ON THE EAST SIDE OF THE TOWN OF LOWELL, BETWEEN A RAILROAD AND A PAVED CITY STREET. OWNERSHIP--BURLINGTON NORTHERN RAILROAD. TO REACH FROM THE OVERPASS AT THE JUNCTION OF U.S. HIGHWAY 71 (IN 1996 THIS HIGHWAY WILL BE INTERSTATE HIGHWAY 540) AND STATE HIGHWAY 264 (EXIT 59) ON THE WEST SIDE OF LOWELL, GO EAST ON HIGHWAY 264 (MONROE AVENUE) FOR 1.53 KM (0.95 MI) TO A PAVED CROSSROAD (U.S. HIGHWAY 71B). TURN LEFT, NORTH ON HIGHWAY 71B (NORTH BLOOMINGTON STREET) FOR 0.39 KM (0.25 MI) TO A PAVED CROSSROAD. TURN RIGHT, EAST ON MCCLURE AVENUE FOR 0.44 KM (0.25 MI) TO A PAVED CROSSROAD JUST PAST A RAILROAD CROSSING. TURN RIGHT, SOUTH ON JACKSON STREET FOR 0.24 KM (0.15 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP OF A 30 CM SQUARE CONCRETE POST PROJECTING 10 CM ABOVE THE GROUND. IT IS 68.4 M (224.4 FT) NORTH-NORTHWEST OF A FIRE HYDRANT LOCATED ABOUT IN LINE WITH THE EXTENDED CENTER OF ADAMS AVENUE, 21.5 M (70.5 FT) WEST-SOUTHWEST OF THE CENTER OF JACKSON STREET, 13.1 M (43.0 FT) EAST-NORTHEAST OF THE EAST RAIL OF THE EAST SET OF TRACKS AND 0.5 M (1.6 FT) NORTHEAST

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

NGS 1st ORDER MARK USED AS CONSTRAINT IN FINAL GPS STATIC NETWORK ADJUSTMENT IN NOV. 2015 BY S5112 FOR JOB #090472 TO ESTABLISH VERTICAL ON GPS MONUMENTS 040042 & 040042A.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
V 289 1984		NOAA	JEFFERSON	65	R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	561,854.8770	
Easting (M)	421,143.3030	
Elevation (M)*	57.015	
Northing (SFT)	1,843,352.2090	
Easting (SFT)	1,381,700.9866	
Elevation (SFT)*	187.057	

Convergence Angle	0	7	41.8486726
Scale Factor	0.999919735		
Elevation Adjust. Factor	0.9999910526		
Combined Adjust. Factor	0.9999107883		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	7	32.7297036
Longitude	91	46	14.8144404
Ellipsoid Height (M):	30.341		
Geoid Height (M):	-26.675		

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO SOUTH ON HWY. 65 FOR 3.508 KM (2.18 MILES) TO THE STATION ON THE LEFT. THE STATION IS 18.28 METERS NORTHEAST OF THE CENTER OF HWY. 65, 15.24 METERS NORTHWEST OF A GRAVEL DRIVE TO A RED BRICK HOUSE AND 0.82 METERS SOUTHWEST OF A CARSONITE WITNESS POST. THE STATION MARK IS A STAINLESS STEEL ROD DRIVEN TO A DEPTH OF 12.2 METERS ENCASED IN A PIPE RECESSED 0.04 METERS AND CAN BE REACHED THROUGH A 5" LOGO CAP.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NORTHWEST CORNER OF RED BRICK HOU SE	51	24.38	80.0
MK # 2	GAS METER	78	1.43	4.7
MK # 3	TELEPHONE JUNCTION BOX NUMBER 27 3 6	347	0.91	3.0

AZ Mark Station	V 289 AZ 1995
Geodetic Azimuth	322 54 45.34515
Grid Azimuth	322 47 03.48744

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments

THIS STATION IS A NOAA BENCH MARK.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
V 289 AZ 1995	7/19/1995	AHTD	JEFFERSON	65	R20091

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1986)

Northing (M)	562,310.9220	
Easting (M)	420,796.9490	
Elevation (M)*	56.806	
Northing (SFT)	1,844,848.4166	
Easting (SFT)	1,380,564.6568	
Elevation (SFT)*	186.371	

Convergence Angle	0	7	34.3049739
Scale Factor	0.999919852		
Elevation Adjust. Factor	0.9999910854		
Combined Adjust. Factor	0.9999109381		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	7	47.5565088
Longitude	91	46	28.2927756
Ellipsoid Height (M):	30.123		
Geoid Height (M):	-26.683		

Location Description

FROM THE POST OFFICE IN THE SMALL TOWN OF MOSCOW, GO SOUTH ON HWY. 65 FOR 2.945 KM (1.83 MILES) TO THE STATION ON THE LEFT. THE STATION IS 24.0 METERS SOUTH OF A GRAVEL DRIVE, 19.40 METERS NORTH OF A GRAVEL DRIVE, 16.50 METERS NORTHEAST OF THE CENTER OF HWY. 65 AND 1.87 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "V 289 A 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS 0.10 METERS BELOW THE SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	GAS METER	10	3.10	10.2
MK # 2	POWER POLE NUMBER 3525	48	2.15	7.1
MK # 3	18" CONCRETE PIPE	155	17.00	55.8

AZ Mark Station	V 289 1984
Geodetic Azimuth	142 54 37.78325
Grid Azimuth	142 47 03.48744

Area Reference Monuments (used for Processing)

Ref Mon # 1	TARRY 1940
Ref Mon # 2	DIST2 1995
Ref Mon # 3	NONE

Comments

THE ELEVATION OF THIS STATION WAS ARRIVED AT BY PRECISE METHODS USING STATION "V 289 1984".

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
V 333	2/2/2012	ARDOT	WASHINGTON	112	012270

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	199,911.9209	0.0010
Easting (M)	203,733.8464	0.0010
Elevation (M)*	373.889	
Northing (SFT)	655,877.6938	
Easting (SFT)	668,416.7944	
Elevation (SFT)*	1,226.667	

Convergence Angle	-1	16	7.1379893
Scale Factor	0.999978858		
Elevation Adjust. Factor	0.9999413281		
Combined Adjust. Factor	0.9999201873		

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	36	6	56.3797296
Longitude	94	10	48.6764616
Ellipsoid Height (M):	345.801		0.0001
Geoid Height (M):	-28.088		0.0000

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 112 AND I 49, IN FAYETTEVILLE, GO NORTH ON HIGHWAY 112 0.7 MILES TO THE MARK ON THE RIGHT, 138.6' EAST OF THE C/L OF THE HIGHWAY AND NORTH 21.9' OF THE C/L OF A CONCRETE DRIVE TO ARDOT MAINTENANCE YARD. THE MARK IS A STANDARD NGS ROD MARK SET UNDER A A LOGO CAP STAMPED "2012 V 333" DRIVEN TO REFUSAL.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FLAG POLE	268	5.61	18.4
MK # 2	SE CORNER 1-S-BRICK BLDING	55	16.76	55.0
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFY
Ref Mon # 2	CTA1
Ref Mon # 3	MOA2

Comments

ELEV. BASED ON DIGITAL LEVELS FROM 1ST ORDER NGS BM V 333 BY S5112 & S5101 IN MAY 2018 FOR P.E. JOB #012270. CHECKED IN TO NGS HORZ. MARK BENT SOUTH WHICH HAD HIGH PRECISION GPS VERTICAL POSITION AND MISSED BY +0.0177'.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
VILLPORT	1/1/1990	NGS	MISSISSIPPI	18	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	180,700.0459	
Easting (M)	595,632.0580	
Elevation (M)*	77.100	
Northing (SFT)	592,846.7339	
Easting (SFT)	1,954,169.5103	
Elevation (SFT)*	252.952	

Convergence Angle	1	15	42.5432827
Scale Factor			0.999955449
Elevation Adjust. Factor			0.9999879006
Combined Adjust. Factor			0.9999433502

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	56	33.6500016	
Longitude	89	49	53.5898100	
Ellipsoid Height (M):	49.100			
Geoid Height (M):	-28.060			

Location Description

THE STATION IS LOCATED ABOUT 9 KM (5.60 MI) SOUTHWEST OF HUFFMAN, 7 KM (4.35 MI) EAST OF BLYTHEVILLE, 3 KM (1.85 MI) NORTH OF ARMOREL, AT THE BLYTHEVILLE MUNICIPAL AIRPORT. OWNERSHIP--CITY OF BLYTHEVILLE, PO BOX 171, BLYTHEVILLE AR 72315, AIRPORT MANAGER IS WALLEY THOMAS, PHONE 501-763-9691. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 55 AND STATE HIGHWAY 18 (EXIT 67) IN EAST BLYTHEVILLE, GO EAST ON HIGHWAY 18 FOR 2.43 KM (1.50 MI) TO THE AIRPORT ENTRANCE ROAD (COUNTY HIGHWAY 980) ON THE LEFT. TURN LEFT, NORTHEAST AND EAST ON THE ROAD FOR 1.89 KM (1.15 MI) TO A GATE AND THE AIRPORT OFFICE ON THE LEFT. PASS THROUGH THE GATE, EAST ACROSS THE APRON FOR ABOUT 30 M (98.4 FT) TO A TAXIWAY. TURN LEFT, NORTH ALONG THE TAXIWAY FOR 0.61 KM (0.35 MI) TO THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A 2.5 CM GREASE-FILLED SLEEVE 93 CM LONG ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE SET FLUSH WITH THE GROUND. IT IS 63.3 M (207.7 FT) WEST OF THE RUNWAY CENTER, 26.0 M (85.3 FT) WEST OF THE EXTENDED CENTER OF THE STOP LINE, 17.2 M (56.4 FT) WEST OF THE WEST END OF THE NORTH HEADWALL OF A CULVERT

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	ILLPORT AZ MK (FE2762)
Geodetic Azimuth	359 55 30.0
Grid Azimuth	358 39 47.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
VINE	1/1/1971	USC&GS	CRAWFORD	N/A	040351

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	133,167.6441
Easting (M)	208,297.3830
Elevation (M)*	
Northing (SFT)	436,900.8457
Easting (SFT)	683,388.9974
Elevation (SFT)*	
Convergence Angle	-1 13 47.6427503
Scale Factor	0.999936659
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	30	54.4656780
Longitude	94	6	48.9523716
Ellipsoid Height (M):	116.296		
Geoid Height (M):	-29.203		

Location Description

TO REACH THE STATION FROM THE UNITED STATES POST OFFICE IN DYER, GO NORTH ON MAIN STREET FOR 0.515 KM (0.32 MI) TO U.S. HIGHWAY 64, TURN RIGHT (EAST) ON U.S. HIGHWAY 64 AND GO EAST 3.058 KM (1.90 MI) TO GEORGIA RIDGE ROAD, TURN LEFT (NORTH) ON GEORGIA RIDGE ROAD AND GO NORTH 0.435 KM (0.27 MI) TO THE STATION ON THE LEFT. THE STATION IS 23.50 METERS SOUTH OF THE CENTER OF THE EAST BOUND LANES OF I 40, 6.35 METERS WEST OF THE CENTER OF GEORGIA RIDGE ROAD, AND 1.080 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&GS TRIANGULATION STATION DISK STAMPED "VINE 1971" SET IN THE TOP OF A 12 - INCH CYLINDRICAL CONCRETE MONUMENT SET FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 463.497 METERS.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	USC&GS REFERENCE MARK NUMBER 2	147	9.30	30.5
MK # 2	SOUTHWEST CORNER OF OVERPASS	9	1.20	3.9
MK # 3	SOUTHEAST CORNER OF OVERPASS	46	13.00	42.7

AZ Mark Station	VINE AZ
Geodetic Azimuth	174 55 43
Grid Azimuth	176 09 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	OZARPORT
Ref Mon # 3	AHTD FS 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
VINE AZ	1/1/1971	USC&GS	CRAWFORD	64	040351

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	132,705.2320
Easting (M)	208,328.4330
Elevation (M)*	
Northing (SFT)	435,383.7487
Easting (SFT)	683,490.8673
Elevation (SFT)*	
Convergence Angle	-1 13 46.6966550
Scale Factor	0.999936749
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	35 30 39.4859016
Longitude	94 6 47.3264964
Ellipsoid Height (M):	105.534
Geoid Height (M):	-29.220

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH THE STATION FROM THE UNITED STATES POST OFFICE IN DYER, GO NORTH ON MAIN STREET FOR 0.515 KM (0.32 MI) TO U.S. HIGHWAY 64, TURN RIGHT (EAST) ON U.S. HIGHWAY 64 AND GO EAST 3.09 KM (1.92 MI) TO THE STATION ON THE RIGHT. THE STATION IS 16.60 METERS SOUTH OF THE CENTER OF U.S. HIGHWAY 64, 13.60 METERS EAST OF A GRAVEL DRIVE, AND 0.56 METERS NORTH OF A WITNESS POST. THE STATION MARK IS A STANDARD USC&GS DISK (AZIMUTH MARK) STAMPED "VINE 1971" SET IN THE TOP OF A 12 - INCH CYLINDRICAL CONCRETE MONUMENT THAT IS SET 3 INCHES ABOVE THE GROUND. THE SHOT DISTANCE IS 463.497 METERS.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	POWER POLE	87	14.00	45.9
MK # 2	GUY POLE	170	0.49	1.6
MK # 3	CORRIGATED METAL PIPE	305	11.20	36.7

AZ Mark Station	VINE
Geodetic Azimuth	354 55 44
Grid Azimuth	356 09 31

Area Reference Monuments (used for Processing)

Ref Mon # 1	GAYLOR
Ref Mon # 2	OZARPORT
Ref Mon # 3	AHTD FS 2

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
W 15 OFFSET	1/2/1932	AHTD	CROSS	284	R10071

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	99,622.2142	
Easting (M)	509,764.8040	
Elevation (M)*	76.214	
Northing (SFT)	326,843.8811	
Easting (SFT)	1,672,453.3611	
Elevation (SFT)*	250.045	

Convergence Angle	0	42	5.9464082
Scale Factor			0.999955447
Elevation Adjust. Factor			0.9999880397
Combined Adjust. Factor			0.9999434872

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	13	30.8876376	
Longitude	90	47	39.1335396	
Ellipsoid Height (M):	49.136			
Geoid Height (M):	-27.078			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 64, U.S. HIGHWAY 64S AND STATE HIGHWAY 1, LOCATED ON THE NORTWEST SIDE OF WYNNE, GO SOUTH ON U.S. HIGHWAY 64S FOR 1.16 KM (1.00 MI) TO THE END OF U.S. HIGHWAY 64S AND THE BEGINING OF M.L. KING STREET, CONTINUE SOUTH ON M.L. KING STREET FOR 1.45 KM (0.90 MI) TO THE STATION ON THE RIGHT. THE STATION IS 31.70 METERS WEST OF THE CENTER OF M.L. KING STREET, 24.45 METERS NORTH OF NORTH RAIL, 21.25 SOUTH OF SOUTH RAIL AND 0.50 WEST OF A WITNESS POST. THE STATION IS A STANDARD 64mm CAP STAMPED "W 15 OFFSET" SET ON TOP OF AN IROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 665.917.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	190007
Geodetic Azimuth	92 42 52.823978
Grid Azimuth	92 00 46.810314

Area Reference Monuments (used for Processing)

Ref Mon # 1	BRINKLEYPORT
Ref Mon # 2	NEWSPORT
Ref Mon # 3	MEM2

Comments

3 WIRE LEVEL FROM NGS PT W 15

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
W 201	1/1/1960	CGS	UNION	N/A	070418

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	464,750.5548	0.0026
Easting (M)	367,416.4848	0.0026
Elevation (M)*	48.262	

Northing (SFT)	1,524,769.1119	
Easting (SFT)	1,205,432.2505	
Elevation (SFT)*	158.340	

Convergence Angle	0	11	44.4993188	
Scale Factor	1.000011479			
Elevation Adjust. Factor	0.9999924262			
Combined Adjust. Factor	1.0000039051			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12A			
Latitude	33	14	59.8300404	
Longitude	92	20	58.7297508	
Ellipsoid Height (M):	22.038			0.0000
Geoid Height (M):	-26.224			0.0000

Location Description

*SEE NGS DATA SHEET

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARMO
Ref Mon # 3	LTEC, 1ULM

Comments

USED NGS ELEV. AS CONSTRAINT IN FINAL NETWORK ADJ.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
W 310	1/1/1989	ARDOT	WASHINGTON	71	04X114

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	183,335.8915	0.0030
Easting (M)	204,485.3387	0.0040
Elevation (M)*	393.897	
Northing (SFT)	601,494.5040	
Easting (SFT)	670,882.3154	
Elevation (SFT)*	1,292.310	

Convergence Angle	-1	15	41.1654917
Scale Factor	0.999958125		
Elevation Adjust. Factor	0.9999381885		
Combined Adjust. Factor	0.9998963161		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	35	57	59.2359552
Longitude	94	10	4.0424412
Ellipsoid Height (M):	365.818		
Geoid Height (M):	-28.079		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 71 AND STATE HIGHWAY 156E, SOUTH OF FAYETTEVILLE, GO SOUTH ON HIGHWAY 71 4.0 MILES THE MARK ON THE RIGHT, WEST 33.6' OF THE C/L OF THE HIGHWAY. THE MARK IS A METAL ROD DRIVEN INTO THE GROUND SUROUNDED BY A NGS CASE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	LIGHT POLE	343	13.75	45.1
MK # 2	SOUTHEAST CORNER OF BARN	265	15.20	49.9
MK # 3	COMBINATION POLE W/4 GUYS	190	9.75	32.0

AZ Mark Station	720069
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
W 343	1/1/1989	NGS	MO / GREENE	N/A	NA

Zone	Zone Code
Arkansas South	
Horizontal Datum	

Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	377.603	

Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	1,238.853	

Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999407453
Combined Adjust. Factor		#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

THE STATION IS LOCATED ON THE WEST SIDE OF SPRINGFIELD, ABOUT 6.1 KM (3.80 MI) SOUTH OF INTERSTATE HIGHWAY 44, ALONG THE EAST SIDE OF U.S. HIGHWAY 160 NORTH (WEST BYPASS), IN THE TOP OF AND NEAR THE CENTER OF AN 8 FT (2.4 M) BY 10 FT (3.0 M) AREA OF EXPOSED ROCK OUTCROP IN A HIGHWAY CUT, ABOUT 1.0 M (3.3 FT) ABOVE THE HIGHWAY. OWNERSHIP--MISSOURI DEPARTMENT OF TRANSPORTATION. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 13 (SUNSHINE ST) AND U.S. HIGHWAY 160 NORTH (WEST BYPASS) ON THE WEST SIDE OF SPRINGFIELD, GO NORTH FOR 0.8 KM (0.50 MI) ON THE BYPASS TO THE STATION ON RIGHT. LOCATED 10.1 M (33.1 FT) EAST OF THE ROAD CENTERLINE, 1.86 M (6.10 FT) SOUTH-SOUTHWEST OF A WITNESS POST AND FLUSH WITH THE ROCK SURFACE. NOTE--MR. HOWARD HENDERSON, INSPECTOR, CONSTRUCTION PARTY CHIEF, CONSTRUCTION DIVISION OF THE MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT, PHONE 417-895-6720, INFORMED THE SURVEY SECTION THAT THE STATION WOULD BE DESTROYED DURING THE SCHEDULED WIDENING OF U.S. HIGHWAY 160.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
W H PHILLIPS	4/19/1997	NGS	NEWTON	7	090288

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	185,252.9629	
Easting (M)	293,320.2940	
Elevation (M)*	387.100	
Northing (SFT)	607,784.0958	
Easting (SFT)	962,334.9979	
Elevation (SFT)*	1,270.011	

Convergence Angle	0	41	18.6366084
Scale Factor	0.999961861		
Elevation Adjust. Factor	0.9999392551		
Combined Adjust. Factor	0.9999011184		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	59	50.4738960
Longitude	93	10	59.5640532
Ellipsoid Height (M):	358.950		
Geoid Height (M):	-28.130		

Location Description

THE STATION IS LOCATED ON THE NEWTON COUNTY FAIRGROUNDS SOUTH OF JASPER. TO REACH THE STATION FROM THE NEWTON COUNTY COURTHOUSE IN JASPER, GO SOUTH ON STATE HIGHWAY 7 FOR 1.4 MI (2.3 KM) TO A SIDE ROAD, THE ENTRANCE TO FAIRGROUNDS. TURN LEFT, EAST, AND ENTER FAIRGROUNDS FOLLOWING THE FIRST DIRT ROAD TO THE NORTHWEST FOR 400 FEET (121.9 M) TO THE FAIRGROUNDS PARKING AREA AND THE STATION ON THE RIGHT. THE STATION IS AN ARKANSAS HARN DISK SET IN A 12 INCH DIAMETER BY 48 INCH DEEP ROUND CONCRETE MONUMENT FLUSH WITH GROUND. LOCATED 232.5 FEET (70.9 M) SOUTHEAST FROM THE SOUTHEAST CORNER OF THE OLD FAIRGROUND BATHROOMS, 152.4 FEET (46.5 M) SOUTHWEST FROM THE SOUTHWEST CORNER OF THE MILDRED AND ROSS ATKINSOM BUILDING AND 193.08 FEET (58.85 M) NORTHWEST FROM THE NORTHWEST CORNER OF THE SOUTHWEST POST ON THE BRICK WAR MEMORIAL NEAR THE FAIRGROUNDS ENTRANCE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
W H Phillips-1			NA	NA	090157

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WALNUT	1/1/1993	NGS	OK / LEFLORE	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	613,562.0099	
Easting (M)	169,934.8160	
Elevation (M)*	603.600	
Northing (SFT)	2,012,994.6941	
Easting (SFT)	557,527.8088	
Elevation (SFT)*	1,980.311	

Convergence Angle	-1	24	12.1508001
Scale Factor	0.999961523		
Elevation Adjust. Factor	0.9999052844		
Combined Adjust. Factor	0.9998668111		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	34	34	0.2231868
Longitude	94	30	26.6837004
Ellipsoid Height (M):	572.870		
Geoid Height (M):	-30.680		

Location Description

THE STATION IS LOCATED ABOUT 18 KM (11.20 MI) NORTHEAST OF SMITHVILLE, 4 KM (2.50 MI) NORTH OF THE LE FLORE COUNTY LINE, 2 KM (1.25 MI) WEST OF THE ARKANSAS BORDER, IN BRUSH IN A SMALL CLEARING, IN THE SOUTHEAST ONE OF FOUR TOWER LEG FOUNDATIONS, ON THE HIGHEST POINT ON WALNUT MOUNTAIN IN OUACHITA NATIONAL FOREST. OWNERSHIP--U.S. GOVERNMENT. TO REACH FROM THE T-JUNCTION OF US HIGHWAY 259 AND STATE HIGHWAY 4 ON THE WEST SIDE OF SMITHVILLE, GO NORTH ON HIGHWAY 259 FOR 5.05 KM (3.15 MI) TO THE LE FLORE COUNTY LINE. CONTINUE AHEAD, NORTH-NORTHWEST, ON HIGHWAY 259 FOR 0.78 KM (0.50 MI) TO A GRAVEL CROSSROAD. TURN RIGHT, EAST, ON THE GRAVEL ROAD FOR 5.97 KM (3.70 MI) TO A WOODEN BRIDGE OVER A CREEK. CONTINUE AHEAD, NORTHEAST, ON THE GRAVEL ROAD FOR 2.99 KM (1.85 MI) TO A WOODEN BRIDGE JUST AFTER A DIRT CROSSROAD. CONTINUE AHEAD, EAST, ON THE GRAVEL ROAD FOR 2.83 KM (1.75 MI) TO A GRAVEL CROSSROAD JUST AFTER THE BEGINNING OF PAVEMENT. CONTINUE AHEAD, EAST, ON THE PAVED ROAD FOR 1.22 KM (0.75 MI) TO THE CENTER ONE OF THREE SMALL WOODEN BRIDGES. CONTINUE AHEAD, EAST, ON THE PAVED ROAD FOR 1.91 KM (1.20 MI) TO A DOUBLE DIRT Y-JUNCTION ON THE

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WARRPORT	1/1/1990	NGS	BRADLEY	63	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	499,483.1021
Easting (M)	392,347.3200
Elevation (M)*	
Northing (SFT)	1,638,720.8108
Easting (SFT)	1,287,226.1657
Elevation (SFT)*	
Convergence Angle	0 2 46.0664313
Scale Factor	0.999952015
Elevation Adjust. Factor	
Combined Adjust. Factor	

Vertical Determined By:	NONE
Elevation Datum:	NONE
Geoid Datum:	
Latitude	33 33 48.9171888
Longitude	92 4 56.7110856
Ellipsoid Height (M):	43.270
Geoid Height (M):	-25.810

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

TO REACH FROM THE POST OFFICE IN WARREN. GO SOUTH ON US HIGHWAY 63 FOR 5.09 KM (3.16 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTHERLY ON THE AIRPORT ENTRANCE ROAD FOR 0.98 KM (0.61 MI) TO A LOCKED GATE ON THE RIGHT. TURN RIGHT AND PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND ALONG A TAXIWAY FOR 0.12 KM (0.07 MI) TO THE RUNWAY AND THE STATION ON THE RIGHT. THE STATION IS A PINCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH A LOGO CAP. IT IS 32.8 M (107.6 FT) SOUTHEAST OF THE CENTERLINE OF THE RUNWAY, 31.8 M (104.3 FT) SOUTH OF A RUNWAY LIGHT AND 6.9 M (22.6 FT) NORTHEAST OF THE CENTERLINE OF A TAXIWAY. THE AIRPORT IS UNATTENDED AND PERSONNEL ARE HARD TO CONTACT. LOCK COMBINATION IS 2239.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	WARRPORT AZ
Geodetic Azimuth	214 45 27.2
Grid Azimuth	214 48 13.3

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WARRPORT AZ	1/1/1990	NGS	BRADLEY	63	001873,020462

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)
Northing (M)	498,690.3972
Easting (M)	391,796.2990
Elevation (M)*	
Northing (SFT)	1,636,120.0781
Easting (SFT)	1,285,418.3576
Elevation (SFT)*	

Convergence Angle	0	2	58.0089717
Scale Factor			0.999953040
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	33	33	23.1718824
Longitude	92	5	18.0488364
Ellipsoid Height (M):	33.490		
Geoid Height (M):	-25.820		

Location Description

TO REACH FROM THE POST OFFICE IN WARREN. GO SOUTH ON STATE HIGHWAY 15 FOR 5.09 KM (3.16 MI) TO A PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO WEST AND SOUTHERLY ON THE AIRPORT ENTRANCE ROAD FOR 0.98 KM (0.61 MI) TO A LOCKED GATE ON THE RIGHT. TURN RIGHT AND PASS THROUGH THE GATE AND GO NORTHWEST ACROSS AN APRON AND ALONG A TAXIWAY FOR 0.12 KM (0.07 MI) TO THE RUNWAY. TURN LEFT AND GO SOUTHWEST ON THE RUNWAY FOR 0.93 KM (0.58 MI) TO THE STATION ON THE LEFT. THE STATION IS A PUNCH HOLE IN THE TOP OF A 5/8-INCH STAINLESS STEEL ROD ENCASED IN A 5-INCH PVC PIPE WITH LOGO CAP, SET 21.2 M (69.6 FT) SOUTHEAST OF THE CENTERLINE OF THE RUNWAY, 16.8 M (55.1 FT) SOUTH OF A RUNWAY LIGHT, 12.8 M (42.0 FT) NORTHEAST OF THE NORTHEAST EDGE OF A TURNAROUND.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	WARRPORT
Geodetic Azimuth	34 45 15.4
Grid Azimuth	34 48 13.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Washington PN-2	7/18/2002	AHTD	WASHINGTON	71	4620_7

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	180,585.4519
Easting (M)	203,438.3910
Elevation (M)*	
Northing (SFT)	592,470.7701
Easting (SFT)	667,447.4545
Elevation (SFT)*	

Convergence Angle	-1	16	4.0614050
Scale Factor	0.999955316		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	29.2670340
Longitude	94	10	43.3893180
Ellipsoid Height (M):	372.607		
Geoid Height (M):	-27.967		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-71 AND HWY-156 IN WEST FORK, GO NORTH ON HWY-71 FOR 0.75 MILES TO THE STATION ON THE RIGHT.10.4 METERS EAST OF THE CENTER OF HWY-71 AND 8.50 METERS NORTH OF THE CENTER OF A PAVED DRIVE LEADING INTO A SALVAGE YARD.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Guard rail post	355	8.10	26.6
MK # 2	Pipe gate post	109	15.10	49.5
MK # 3				

AZ Mark Station	Washington Co. PN-3
Geodetic Azimuth	011 35 56
Grid Azimuth	012 52 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	Gaylor
Ref Mon # 2	ENES
Ref Mon # 3	Sali1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Washington PN-3	7/18/2002	AHTD	WASHINGTON	71	4620_7

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	181,058.0159	
Easting (M)	203,546.3330	
Elevation (M)*		
Northing (SFT)	594,021.1738	
Easting (SFT)	667,801.5942	
Elevation (SFT)*		

Convergence Angle	-1	16	1.7984994
Scale Factor			0.999955784
Elevation Adjust. Factor			
Combined Adjust. Factor			

Vertical Determined By:	NONE			
Elevation Datum:	NONE			
Geoid Datum:				
Latitude	35	56	44.6736408	
Longitude	94	10	39.5004900	
Ellipsoid Height (M):	386.541			
Geoid Height (M):	-27.965			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-71 AND HWY- IN WEST FORK, GO NORTH ON HWY-71 FOR 1.05 MILES TO THE STATION ON THE LEFT. 9.35 METERS WEST OF THE CENTER OF HWY-71AND 7.0 METERS NORTH OF A PAVED DRIVEWAY.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Telephone junction box	219	16.50	54.1
MK # 2	south front porch post at "Wisdom's clock shop"	302	12.80	42.0
MK # 3				

AZ Mark Station	Washington PN-2
Geodetic Azimuth	191 35 58
Grid Azimuth	192 52 00

Area Reference Monuments (used for Processing)

Ref Mon # 1	Gaylor
Ref Mon # 2	ENES
Ref Mon # 3	Sali1

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Washington PN-4	7/18/2002	AHTD	WASHINGTON	71	4620_7

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	181,222.6289	
Easting (M)	203,611.3430	
Elevation (M)*		
Northing (SFT)	594,561.2416	
Easting (SFT)	668,014.8812	
Elevation (SFT)*		

Convergence Angle	-1	16	0.3739077
Scale Factor	0.999955948		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	NONE		
Elevation Datum:	NONE		
Geoid Datum:			
Latitude	35	56	50.0600328
Longitude	94	10	37.0523136
Ellipsoid Height (M):	386.469		
Geoid Height (M):	-27.964		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF HWY-71 AND HWY- IN WEST FORK, GO NORTH ON HWY-71 FOR 1.15 MILES TO THE STATION ON THE LEFT NEAR A PIPE RIGHT OF WAY FENCE. 15.8 METERS WEST OF THE CENTER OF HWY-71 AND 0.80 METERS EAST OF A METAL PIPE FENCE.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Fence corner	185	23.20	76.1
MK # 2	Gas meter	007	26.10	85.6
MK # 3				

AZ Mark Station	Washington PN-3
Geodetic Azimuth	200 17 01
Grid Azimuth	201 33 01

Area Reference Monuments (used for Processing)

Ref Mon # 1	Gaylor
Ref Mon # 2	ENES
Ref Mon # 3	Sali1

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WHV 16 NO 1	1/1/1950	AHTD	LAFAYETTE	SR-160	030455

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	446,971.6974	0.0020
Easting (M)	251,674.5197	0.0020
Elevation (M)*		
Northing (SFT)	1,466,439.6439	
Easting (SFT)	825,702.1534	
Elevation (SFT)*		

Convergence Angle	0	53	20.7858202
Scale Factor	1.000056119		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12B		
Latitude	33	4	47.2067976
Longitude	93	35	18.8477412
Ellipsoid Height (M):	47.042	0.0150	
Geoid Height (M):	-26.419	0.0150	

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF SR-29 AND SR-160, IN BRADLEY, GO EAST ON SR-160 3.9 MILES TO THE STATION ON THE RIGHT. 31.5' SOUTH OF THE C/L OF THE HIGHWAY AND 34' WEST OF C/L DRIVE. THE MARK IS A 3" BRASS CAP STAMPED "WHV 16 NO 1 1950" SET IN A CONCRETE POST 4" ABOVE THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Power Pole	37	23.38	76.7
MK # 2				
MK # 3				

AZ Mark Station	370019
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

GPS DERIVED ELEVATION BASED ON ORTHOMETRIC HT. CONSTRAINTS ON AHTD CORS SITES ARCM & ARHP AND ON 2ND ORDER USC & GS BM C 63 IN THE STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
KINS W BASE RE	1/1/1970	CGS	TX / UPSHUR	N/A	NA

Zone	Zone Code
Arkansas South	
Horizontal Datum	

Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	104.510	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	342.880	

Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999835992
Combined Adjust. Factor		#Type!

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality	
Elevation Datum:	NAVD 88	
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

Location Description

RECOVERED IN DISTURBED CONDITION. THE STATION IS FOUND LEANING FIVE DEGREES TO THE SOUTH. THE METAL SIGN POST OF RECORD WAS FOUND BEARING ON THE NORTH EDGE OF THE CONCRETE POST AND WAS REMOVED. NOTE THAT THE SOIL IS ALL WASHED SAND OF SEDIMENTARY ORIGIN. THE 1993 TO REACH IS VALID. RM 1 AND RM 2 NOT FOUND AND PRESUMED DESTROYED AS PER 1970 DESCRIPTION. RM 3 AND RM 4 RECOVERED IN GOOD CONDITION. THE AZIMUTH MARK IS RECOVERED IN DESTROYED CONDITION WITH THE CONCRETE POST BROKEN, IN BIG SANDY NORTHEAST FROM THE JUNCTION OF SOUTH PEARL AND EAST COTTON, AT THE BASE OF A TOWER. NOTE THAT THE 1970 POST OFFICE IS NOW THE CITY HALL ON GILMER STREET. THE STATION IS LOCATED ABOUT 21 KM (13.05 MI) WEST OF LONGVIEW, 14 KM (8.70 MI) NORTH OF INTERSTATE HIGHWAY 20, 3 KM (1.85 MI) EAST OF BIG SANDY IN A GRASSY AREA EAST OF A GROUP OF PINE TREES, ON THE SOUTH SIDE OF THE AMBASSADOR COLLEGE CAMPUS AND IN THE RIGHT OF WAY OF US HIGHWAY 80. OWNERSHIP--TEXAS DEPARTMENT OF TRANSPORTATION, 11TH AND BRAZOS, AUSTIN TX 78701, PHONE 512-465-7337. TO REACH THE STATION FROM THE EASTERLY JUNCTION OF US HIGHWAY 80 (BROADWAY) AND STATE HIGHWAY 155 (TYLER) IN BIG

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	WILKINS W BASE AZ MK
Geodetic Azimuth	278 01 08.4
Grid Azimuth	276 09 03.5

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WINN RM A	1/1/1965	CGS	S / WASHINGTO	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	490,669.2887	0.0024
Easting (M)	482,859.9312	0.0027
Elevation (M)*	42.600	
Northing (SFT)	1,609,804.1580	
Easting (SFT)	1,584,182.9576	
Elevation (SFT)*	139.764	

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 12B			
Latitude	33	28	51.2177520	
Longitude	91	6	30.3965640	
Ellipsoid Height (M):	16.041			0.0040
Geoid Height (M):	-27.307			

Convergence Angle	0	29	56.3851516
Scale Factor	0.999964818		
Elevation Adjust. Factor	0.9999933147		
Combined Adjust. Factor	0.9999581330		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

THE STATION IS LOCATED ABOUT 5.8 MI (9.3 KM) NORTHWEST OF GREENVILLE, 3.2 MI (5.1 KM) SOUTHWEST OF WINTERVILLE, IN SECTION 6, T 19 N, R 9 W, ON THE EAST BANK OF THE MISSISSIPPI RIVER AND ON STATE PROPERTY. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 82 AND STATE HIGHWAY 1 IN GREENVILLE, GO NORTH FOR 6.95 MI (11.18 KM) ON STATE HIGHWAY 1 TO A CROSSROAD. TURN LEFT AND GO WEST FOR 2.4 MI (3.9 KM) ON WINN ROAD TO A GRAVELED FORK. TURN LEFT AND GO SOUTHWEST FOR 0.05 MI (0.08 KM) TO THE TOP OF LEVEE. CONTINUE SOUTH FOR 0.48 MI (0.77 KM) ON THE LEVEE ROAD TO A DIM ROAD LEFT AND THE STATION ON LEFT, JUST BEFORE REACHING THE JUNCTION OF A LEVEE ROAD WEST. THE STATION IS FLUSH WITH GROUND. LOCATED 118 FT (36.0 M) EAST FROM THE CENTER OF THE LEVEE ROAD, 113 FT (34.4 M) SOUTH FROM AN OLD FENCE LINE, 12.7 FT (3.9 M) NORTHEAST FROM WINN RM 5 AND 2.0 FT (0.6 M) SOUTHEAST FROM A WITNESS POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	EENVILLE AFB (DK2038)
Geodetic Azimuth	091 27 57.8
Grid Azimuth	090 58 01.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

Position and elevation from NGS datasheet.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WINSTON	1/1/1957	CGS	MS / BOLIVAR	N/A	NA

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	539,075.7034	0.0017
Easting (M)	515,173.8635	0.0014
Elevation (M)*	44.692	
Northing (SFT)	1,768,617.5369	
Easting (SFT)	1,690,199.5838	
Elevation (SFT)*	146.627	

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID12B			
Latitude	33	54	51.3973080	
Longitude	90	45	15.9999840	
Ellipsoid Height (M):	18.244			0.0046
Geoid Height (M):	-26.458			

Convergence Angle	0	41	49.6530487
Scale Factor	0.999920656		
Elevation Adjust. Factor	0.9999929864		
Combined Adjust. Factor	0.9999136430		

Location Description

THE STATION IS LOCATED IN WINSTONVILLE, NEAR THE NORTHWEST CORNER OF A TRIANGULAR SHAPED GRASS AREA SOUTHEAST OF THE JUNCTION OF MACK WILLIAMS ST AND BLAKE AV. OWNERSHIP--UNKNOWN. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 61 AND WINSTON ST NEAR THE CENTER OF WINSTONVILLE AND IN FRONT OF THE POST OFFICE, GO NORTHWEST FOR 0.5 KM (0.30 MI) ON HIGHWAY 61 TO THE JUNCTION OF MACK WILLIAMS ST. TURN LEFT, WEST FOR 0.2 KM (0.10 MI) ALONG MACK WILLIAMS STREET TO THE STATION ON THE LEFT, JUST BEFORE A T-JUNCTION WITH BLAKE AV. STATION IS 36.8 M (120.7 FT) WEST-NORTHWEST OF THE NORTHWEST CORNER OF THE PERSONAL CARE HOME, 30.5 M (100.1 FT) WEST OF THE CENTER OF GRAVEL ENTRANCE TO COVERSTONE PERSONAL CARE HOME AT 102 MACK WILLIAMS ST, 24.05 M (78.90 FT) NORTH-NORTHWEST OF WINSTON RM 2 AND WITNESS POST, 22.3 M (73.2 FT) EAST-NORTHEAST OF THE CENTER OF BLAKE AV, 10.7 M (35.1 FT) SOUTH OF THE CENTER OF MACK WILLIAMS STREET, 4.5 M (14.8 FT) SOUTH OF A WITNESS POST, ABOUT LEVEL WITH THE STREET AND FLUSH WITH GROUND.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	WOOTEN (DK1930)
Geodetic Azimuth	045 04 16.7
Grid Azimuth	045 18 22.6

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WRB	1/1/1936	NGS	FAULKNER	36	080384

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	87,909.5701	
Easting (M)	374,119.9770	
Elevation (M)*	125.555	
Northing (SFT)	288,416.6479	
Easting (SFT)	1,227,425.2912	
Elevation (SFT)*	411.925	

Convergence Angle	0	9	54.8110409
Scale Factor			0.999967798
Elevation Adjust. Factor			0.9999802967
Combined Adjust. Factor			0.9999480953

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	7	31.4099688
Longitude	92	17	2.1892632
Ellipsoid Height (M):	97.921		
Geoid Height (M):	-27.629		

Location Description

DESCRIBED BY NATIONAL GEODETIC SURVEY 19629.8 MI NW FROM VILONIA.5.7 MILES WEST ALONG U.S. HIGHWAY 64 FROM THE POST OFFICE AT VILONIA,THENCE 4.1 MILES NORTH ALONG STATE HIGHWAY 36, 48 FEET WEST OF THE'CENTERLINE OF THE HIGHWAY, 45 FEET SOUTHWEST OF A POWER POLE, 13 FEETWEST OF A METAL WITNESS POST, 4.4 FEET NORTH OF A FENCE, ABOUT 4 FEETABOVE THE LEVEL OF THE HIGHWAY, SET IN TOP OF A SQUARE CONCRETE POSTPROJECTING 4 INCHES ABOVE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARHR
Ref Mon # 3	ARBT

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WYATT 1941	7/24/1995	USC&GS	UNION	82	070104, 070367, 070368

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	460,294.2147	
Easting (M)	331,510.2092	
Elevation (M)*	78.502	
Northing (SFT)	1,510,148.6027	
Easting (SFT)	1,087,629.7447	
Elevation (SFT)*	257.553	

Convergence Angle	0	24	40.1301021
Scale Factor			1.000021662
Elevation Adjust. Factor			0.9999876806
Combined Adjust. Factor			1.0000093423

SUPERCEDED CONTROL

Horizontal Datum			NAD 83 (1986)
Latitude	33	12	29.0237688
Longitude	92	44	4.5408480
Ellipsoid Height:			51.745
Grid Northing (Meters)			460,294.5410
Grid Easting (Meters)			331,510.4530

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	12	29.0131200
Longitude	92	44	4.5501720
Ellipsoid Height (M):	52.235		
Geoid Height (M):	-26.275		

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 7.403 KM (4.6 MILES) TO THE "Y" JCT. OF HWY. 82 AND HWY. 82B, TAKE THE LEFT FORK (HWY. 82) AND GO WEST FOR 3.54 KM (2.20 MILES) TO THE JCT. OF HWY. 82 AND HWY. 335 NORTH AND THE STATION ON THE LEFT IN FRONT OF THE WYATT BAPTIST CHURCH. THE STATION IS 17.0 METERS SOUTH OF THE CENTERLINE OF HWY. 82, 12.4 METERS EAST OF CENTERLINE OF PAVED COUNTY ROAD LEADING SOUTH, 1.30 METERS EAST OF A WATER VALVE, 0.40 METERS SOUTH OF A WITNESS POST AND 0.20 METERS NORTH OF A CONCRETE PARKING LOT. THE STATION MARK IS A STANDARD BRASS CAP STAMPED "WYATT 1941" SET IN A CONCRETE POST 0.20 METERS BELOW THE GROUND SURFACE.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	STEEL LIGHT POLE	260	2.65	8.7
MK # 2	20" METAL CULVERT	315	10.00	32.8
MK # 3	COMBINATION POLE	88	22.80	74.8

AZ Mark Station	WYATT AZ 1995
Geodetic Azimuth	274 43 42.77196
Grid Azimuth	275 08 23.00796

Area Reference Monuments (used for Processing)

Ref Mon # 1	NORPHLET 1952
Ref Mon # 2	700001
Ref Mon # 3	NONE

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
WYATT AZ 1995	7/24/1995	AHTD	UNION	82	070104,070367,070368

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	460,337.2901	
Easting (M)	331,031.2059	
Elevation (M)*	70.015	
Northing (SFT)	1,510,289.9259	
Easting (SFT)	1,086,058.2147	
Elevation (SFT)*	229.709	

Convergence Angle	0	24	50.4881902
Scale Factor	1.000021572		
Elevation Adjust. Factor	0.9999890124		
Combined Adjust. Factor	1.0000105842		

SUPERCEDED CONTROL

Horizontal Datum	NAD 83 (1986)		
Latitude	33	12	30.3102828
Longitude	92	44	23.0482284
Ellipsoid Height:	43.272		
Grid Northing (Meters)	460,337.6270		
Grid Easting (Meters)	331,031.4350		

Vertical Determined By:	3rd Order - Digital Level		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid09		
Latitude	33	12	30.2992920
Longitude	92	44	23.0569800
Ellipsoid Height (M):	43.775		
Geoid Height (M):	-26.275		

Location Description

FROM THE JCT. OF HWY. 167 AND HWY. 82 IN SOUTH EL DORADO, GO WEST ON HWY. 82 FOR 7.403 KM (4.60 MILES) TO THE "Y" JCT. OF HWY. 82 AND HWY. 82B, TAKE THE LEFT FORK (HWY. 82) AND GO WEST ON HWY. 82 FOR 3.540 KM (2.20 MILES) TO THE JCT. OF HWY. 82 AND HWY. 335 NORTH, CONTINUE WEST ON HWY. 82 FOR 0.483 KM (0.30 MILES) TO THE STATION ON THE RIGHT IN FRONT OF TRI-STATE VALVE AND INSTRUMENT COMPANY. THE STATION IS 17.60 METERS NORTH OF THE CENTERLINE OF HWY. 82, 12.50 METERS WEST OF THE CENTERLINE OF A GRAVEL DRIVE AND 1.50 METERS SOUTH OF A WITNESS POST. THE STATION MARK IS A STANDARD 2 1/2" ALUMINUM CAP STAMPED "WYATT AZ 1995" SET ON TOP OF A 3/4" REBAR 1.22 METERS IN LENGTH AND IS FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	GAS METER	270	5.90	19.4
MK # 2	WATER METER	100	6.40	21.0
MK # 3	3" STEEL GATE POST	77	8.00	26.2

AZ Mark Station	WYATT 1941
Geodetic Azimuth	94 43 32.635771
Grid Azimuth	95 08 23.007965

Area Reference Monuments (used for Processing)

Ref Mon # 1	NORPHLET 1952
Ref Mon # 2	WYATT 1941
Ref Mon # 3	700001

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
X 166	1/1/1944	CGS	MS / CARROLL	N/A	NA

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	45.339	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	148.750	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999928849
Combined Adjust. Factor		#Type!

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

MARK IS LOCATED ABOUT 5.5 MI (8.9 KM) SOUTHEAST OF GREENWOOD, ON THE CATTRACK RANCH, 0.3 MI (0.5 KM) EAST OF THE GREENWOOD-LEFLORE AIRPORT, IN AN ABANDONED FLAG POLE THAT WAS IN FRONT OF THE HEADQUARTERS BUILDING FOR THE GREENWOOD ARMY AIR FIELD WHICH NO LONGER EXISTS. TO REACH FROM THE U.S. HIGHWAY 82 BRIDGE OVER U.S. HIGHWAY 49 AT THE SOUTH EDGE OF GREENWOOD, GO EAST ON U.S. HIGHWAY 82 FOR 4.9 MI (7.9 KM) TO THE CARROLL-LEFLORE COUNTY LINE, CONTINUE EAST ON U.S. HIGHWAY 82 FOR 2.25 MI (3.62 KM) TO THE ENTRANCE TO THE AIRPORT ON THE RIGHT, TURN RIGHT AND GO SOUTHWESTERLY ON A PAVED ROAD FOR 1.40 MI (2.25 KM) TO A CROSSROAD, TURN LEFT AND GO SOUTH ON A PAVED ROAD FOR 0.3 MI (0.5 KM) TO A CROSSROAD, TURN RIGHT AND GO WEST FOR 0.1 MI (0.2 KM) TO THE MARK STRAIGHT AHEAD. STATION IS A STANDARD BENCH MARK DISK SET IN A DRILL HOLE NEAR THE CENTER OF THE WEST SIDE OF THE CONCRETE BASE FOR AN ABANDONED FLAG POLE, 110 FT (33.5 M) WEST OF THE CENTER OF A FORK, 53 FT (16.2 M) SOUTHWEST OF THE CENTER OF AN ABANDONED PAVED ROAD, 45 FT (13.7 M) NORTH-NORTHWEST OF THE CENTER OF A PAVED ROAD 1 FT (0.3 M) WEST-NORTHWEST OF A METAL WITNESS POST AND IS DIRECTLY UNDER A POWER

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
X 189	1/1/1956	USC&GS	CLAY	62	R00084

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	234,295.2481	
Easting (M)	548,636.7610	
Elevation (M)*	93.187	
Northing (SFT)	768,683.6598	
Easting (SFT)	1,799,985.7734	
Elevation (SFT)*	305.731	

Convergence Angle	0	57	52.5066975
Scale Factor	1.000045791		
Elevation Adjust. Factor	0.9999853761		
Combined Adjust. Factor	1.0000311665		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	26	1.7691288
Longitude	90	20	32.4593556
Ellipsoid Height (M):	63.767		
Geoid Height (M):	-29.420		

Location Description

FROM THE POST OFFICE IN McDOUGAL, GO EAST ON HWY. 62 FOR 4.47 KM (2.78 MILES) TO THE STATION ON THE LEFT. THE STATION IS 16.8 METERS NORTH OF THE CENTERLINE OF HWY. 62, 7.4 METERS WEST OF THE CENTER OF A DRIVEWAY AND 0.80 METERS SOUTH OF A WITNESS POST AND POWER POLE. THE STATION MARK IS A STANDARD BRASS CAP SET ON TOP OF A CONCRETE POST AND PROJECTS FOUR (4) INCHES.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" PINE TREE	302	17.50	57.4
MK # 2	48" OAK TREE	348	20.30	66.6
MK # 3	48" PIPE CULVERT	135	6.20	20.3

AZ Mark Station	110002
Geodetic Azimuth	89 57 34.821296
Grid Azimuth	88 59 42.427812

Area Reference Monuments (used for Processing)

Ref Mon # 1	CORNPORT
Ref Mon # 2	HOPEWELL
Ref Mon # 3	NONE

Comments

Cross Reference Job: R00119 and R00125

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
X 303	1/1/1985	NGS	LITTLE RIVER	71	30108

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	513,807.2962	
Easting (M)	202,544.7270	
Elevation (M)*	100.357	
Northing (SFT)	1,685,716.1043	
Easting (SFT)	664,515.4918	
Elevation (SFT)*	329.255	

Convergence Angle	-1	11	30.7128791
Scale Factor			0.999938107
Elevation Adjust. Factor			0.9999842510
Combined Adjust. Factor			0.9999223589

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	33	40	27.3009288	
Longitude	94	7	46.2216828	
Ellipsoid Height (M):	73.320			
Geoid Height (M):	-27.040			

Location Description

THE STATION IS LOCATED IN ASHDOWN, AT THE FIRST METHODIST CHURCH ON COMMERCE STREET, AND IN THE FRONT LAWN OF THE EDUCATIONAL BUILDING LOCATED ON THE WEST SIDE OF THE CHURCH. OWNERSHIP--FIRST METHODIST CHURCH, ASHDOWN AR, PHONE 501-893-5738 OR 501-893-3525. TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 71 AND STATE HIGHWAY 32 WEST, ABOUT 0.4 KM (0.25 MI) NORTH OF THE JUNCTION OF HIGHWAYS 71 AND 32 EAST, GO SOUTH ON HIGHWAY 71 FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF COMMERCE STREET ON THE LEFT. TURN LEFT, EAST ON COMMERCE STREET FOR 0.08 KM (0.05 MI) TO THE JUNCTION OF KELLER STREET. CONTINUE AHEAD, EAST ON COMMERCE STREET FOR ABOUT 30 M (98.4 FT) TO THE EDUCATIONAL BUILDING AND CHURCH AND THE STATION ON THE RIGHT. THE STATION IS A PUNCH HOLE ON THE TOP CENTER OF A STAINLESS STEEL ROD IN A GREASE FILLED SLEEVE ENCASED IN A 12.7 CM PVC PIPE WITH A LOGO CAP SURROUNDED BY CONCRETE RECESSED 3 CM BELOW THE GROUND SURFACE. IT IS 12.4 M (40.7 FT) SOUTH OF THE CENTER OF COMMERCE STREET, 5.45 M (17.88 FT) WEST OF THE WEST EDGE OF THE ENTRANCE SIDEWALK TO THE EDUCATIONAL BUILDING, 3.15 M (10.33 FT) SOUTH OF THE SOUTH EDGE OF THE SIDEWALK PARALLEL TO COMMERCE

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
X 310	1/1/1989	NOAA	WASHINGTON	71	NA

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	175,657.3519	
Easting (M)	203,524.6280	
Elevation (M)*	428.420	
Northing (SFT)	576,302.4954	
Easting (SFT)	667,730.3837	
Elevation (SFT)*	1,405.575	

Convergence Angle	-1	15	59.5306332
Scale Factor	0.999950796		
Elevation Adjust. Factor	0.9999327715		
Combined Adjust. Factor	0.9998835708		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	53	49.4690172
Longitude	94	10	35.6031372
Ellipsoid Height (M):	399.748		
Geoid Height (M):	-28.672		

Location Description

THE STATION IS 3.8 KM. (2.35 MI.) SOUTHERLY ALONG HWY-71 FROM THE JUNCTION OF HWY-180 IN WEST FORK, IN A LARGE EXPOSED AREA OF BEDROCK IN A HIGHWAY CUT, 174.0 METERS (570.9 FT.) SOUTH OF THE CENTER OF A DRIVEWAY LEADING WEST, 37.6 METERS (123.4 FT.)NORTH OF THE SOUTH END OF THE CUT, 18.7 METERS (61.4 FT.) WEST OF THE CENTERLINE OF THE HIGHWAY, 1.5 METERS (4.9 FT.) ABOVE THE LEVEL OF THE HIGHWAY AND 0.30 METERS NORTHOF A WITNESS POST.***** SPECIFIC SETTING ---- A DRILL HOLE IN BEDROCK

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	NONE			
MK # 2	NONE			
MK # 3	NONE			

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	SPRINGDALE
Ref Mon # 2	DENNIS
Ref Mon # 3	NONE

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Y 209	1/1/1962	NGS	FAULKNER	36	080339

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	91,704.9051	
Easting (M)	379,674.7890	
Elevation (M)*	94.427	
Northing (SFT)	300,868.5095	
Easting (SFT)	1,245,649.7036	
Elevation (SFT)*	309.800	

Convergence Angle	0	7	47.3406830
Scale Factor	0.999963211		
Elevation Adjust. Factor	0.9999851815		
Combined Adjust. Factor	0.9999483931		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	9	35.0329032
Longitude	92	13	23.1300624
Ellipsoid Height (M):	66.824		
Geoid Height (M):	-27.602		

Location Description

LOCATED AT THE JUNCTION OF STATE HIGHWAY 36 EAST AND STATE HIGHWAY 107 NORTH, IN THE COMMUNITY OF SHARON, 53.6 FEET EAST OF THE EAST CORNER OF SANSON STORE AND STATION, 49.0 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY, 7.5 FEET NORTH OF A GUY POLE, 2.0 FEET WEST OF A METAL WITNESS POST AND SET IN THE TOP OF CONCRETE POST WHICH PROJECTS 0.3 FEET. THE STATION MARK IS A STANDARD 2 BRASS CAP STAMPED "Y 209 1962" .

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARBT
Ref Mon # 3	ARHR

Comments

2nd Order NGS Mark

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Y 27		NGS	Crawford	NA	R40013

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	156,698.3130
Easting (M)	203,543.1450
Elevation (M)*	331.351
Northing (SFT)	514,101.0486
Easting (SFT)	667,791.1349
Elevation (SFT)*	1,087.107

Convergence Angle	-1	15	49.3984897
Scale Factor			0.999938995
Elevation Adjust. Factor			0.9999480029
Combined Adjust. Factor			0.9998870011

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	35	43	34.4636040	
Longitude	94	10	18.1909380	
Ellipsoid Height (M):	302.967			
Geoid Height (M):	-28.384			

Location Description

To reach the station from the junction of highways 282 and 71 east of Chester go north on highway 71 for 5.50 miles to "Schaberg Rd." on the left. Go left on Schaberg Rd. for 2.10 miles to a railroad, cross the tracks and turn left and go 0.15 miles to th

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	Sal1
Ref Mon # 2	ARFY
Ref Mon # 3	170015

Comments

The station mark is a first order benchmark.Elevation is 1087.11 feet.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Y 298	1/1/1985	NGS	SEBASTIAN	71	040792

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	93,202.9063	0.0010
Easting (M)	193,155.7324	0.0010
Elevation (M)*	224.490	

Northing (SFT)	305,783.2018	
Easting (SFT)	633,711.7654	
Elevation (SFT)*	736.514	

Convergence Angle	-1	19	15.9613196
Scale Factor	0.999964220		
Elevation Adjust. Factor	0.9999647714		
Combined Adjust. Factor	0.9999289927		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid12B		
Latitude	35	9	7.0044192
Longitude	94	16	13.1714148
Ellipsoid Height (M):	193.857	0.0000	
Geoid Height (M):	-30.634	0.0000	

Location Description

DESCRIBED BY NATIONAL GEODETIC SURVEY 1985
14.3 KM (8.8 MI) SOUTH FROM GREENWOOD.
5.1 KM (3.15 MI) WEST ALONG STATE ROUTE 10S SPUR FROM THE SEBASTIAN COUNTY COURTHOUSE IN GREENWOOD, THENCE 1.6 KM (5.7 MI) SOUTH ALONG
U.S. HIGHWAY 71, AT THE CREST OF A HILL AND NEAR THE NORTHWEST CORNER OF THE PROPERTY OF MR. HARLAN CROSS (STONE HOUSE), 12.5 METERS
(41.0 FT) EAST OF THE CENTERLINE OF HIGHWAY 71, 0.52 METERS (1.7 FT) NORTHWEST OF A CORNER FENCE POST, 0.31 METERS (1.0 FT) WEST OF A FENCE LINE, 17.4 METERS (57.0 FT) NORTH-NORTHWEST OF THE APPROXIMATE CENTER OF THE PRIVATE ENTRANCE DRIVE, 36.3 METERS (119.0 FT) NORTH-NORTHWEST OF A POWERLINE POLE, AND 30.5 METERS (100.0 FT) NORTH-NORTHWEST OF THE
APPROXIMATE CENTER OF A DIRT ROAD (EXTENDED) AND LEADING OVER A CATTLE GUARD. NOTE, DRIVEN TO GRADUAL REFUSAL AND ANCHORED IN ROCK. THE MARK IS 0.31 METERS NW FROM A WITNESS POST.
THE MARK IS 0.31 M BELOW HIGHWAY 71.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARFS
Ref Mon # 2	ARFY
Ref Mon # 3	ARRV, OKHV

Comments

USED NGS PUBLISHED ELEV. IN FINAL STATIC NETWORK ADJUSTMENT.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Y 68	1/1/1934	USC&GS	CLEBURNE	25	012227

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	124,972.5233	0.0020
Easting (M)	395,411.0434	0.0020
Elevation (M)*	276.901	
Northing (SFT)	410,014.0202	
Easting (SFT)	1,297,277.7316	
Elevation (SFT)*	908.466	

Convergence Angle	0	1	45.9075066
Scale Factor			0.999938282
Elevation Adjust. Factor			0.9999565471
Combined Adjust. Factor			0.9998948318

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	2nd Order - NGS		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 12A		
Latitude	35	27	35.2698876
Longitude	92	3	2.0032056
Ellipsoid Height (M):	249.386		
Geoid Height (M):	-27.515		

Location Description

DESCRIBED BY COAST AND GEODETIC SURVEY 1962
3.1 MI S FROM HEBER SPRINGS. 3.1 MILES SOUTH ALONG STATE HIGHWAY 25 FROM THE MISSOURI AND NORTH ARKANSAS RAILWAY STATION AT HEBER SPRINGS, 225 FEET NORTHEAST OF THE CENTER OF THE WEST END OF THE JUNCTION WITH STATE HIGHWAY 5, 150 FEET NORTHWEST OF THE CENTER OF THE EAST END OF THE JUNCTION, 52.5 FEET WEST OF THE WEST SIDE OF THE M. DONALDSON SERVICE STATION, 52.3 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY, 19.9 FEET NORTH OF THE SOUTHEAST FENCE CORNER, AND 1.2 FEET EAST OF THE NORTH-AND-SOUTH FENCE. A STANDARD DISK, STAMPED Y 68 1934 AND SET IN THE TOP OF A CONCRETE POST.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

S5112 PERFORMED SIMULTANEOUS STATIC GPS BETWEEN Y 68 & Q 68 IN SEPT. 2015 AND MISSED Y 68 BY +0.0185' WHEN CONSTRAINING Q 68, ARBT & ARLR. DISTANCE BETWEEN MARKS ALONG HWY. 25 IS APPROXIMATELY 17.2 MILES.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Y22	1/1/1932	USC&GS	MILLER	196	XA0302

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (1997)

Northing (M)	481,154.7821	
Easting (M)	221,778.5120	
Elevation (M)*	111.800	
Northing (SFT)	1,578,588.6476	
Easting (SFT)	727,618.3348	
Elevation (SFT)*	366.797	

Convergence Angle	-1	4	19.5896999
Scale Factor			0.999982573
Elevation Adjust. Factor			0.9999824552
Combined Adjust. Factor			0.9999650285

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	33	22	59.9740212
Longitude	93	54	55.9333980
Ellipsoid Height (M):	85.038		
Geoid Height (M):	-26.762		

Location Description

TO REACH THE STATION MARK FROM THE JUNCTION OF STATE HIGHWAY 237 ìAND STATE HIGHWAY 196, EAST OF TEXARKANA, GO EAST ON HIGHWAY ì196 4.35 MILES TO THE STATION MARK ON THE RIGHT, SOUTHEAST ìACROSS THE ROAD FROM THE US POST OFFICE IN GENOA, WEST 14.9 ìMETERS OF A PRIVATE ASPH. DRIVE, NORTH 8.9 METERS OF THE ìCENTERLINE OF A RAILROAD, SOUTH 10.1 METERS OF THE CENTERLINE OFì THE HIGHWAY AND NORTH 0.50 METERS OF A WITNESS POST. THE ìSTATION MARK IS A STANDARD DISK, STAMPED "366.899 Y 22 1932 " ìAND SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	RAIL ROAD STOP SIGN	97	10.80	35.4
MK # 2				
MK # 3				

AZ Mark Station	460033
Geodetic Azimuth	84 27 49
Grid Azimuth	85 32 09

Area Reference Monuments (used for Processing)

Ref Mon # 1	1ULM, DQUA
Ref Mon # 2	AHTD HOPE
Ref Mon # 3	AHTD TEXARKANA

Comments

NGS Monument established in 1932 by CGS. HZ position established in 2004 by AHTD.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Z 149 offset	3/8/2011	AHTD	Searcy	27	090304

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	162,072.4459	
Easting (M)	331,570.5690	
Elevation (M)*	488.668	
Northing (SFT)	531,732.6829	
Easting (SFT)	1,087,827.7751	
Elevation (SFT)*	1,603.238	

Convergence Angle	0	26	25.8194824
Scale Factor	0.999942477		
Elevation Adjust. Factor	0.9999233179		
Combined Adjust. Factor	0.9998657993		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - 3 Wire Level		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	35	47	30.6079800
Longitude	92	45	25.2480816
Ellipsoid Height (M):	460.803		
Geoid Height (M):	-27.865		

Location Description

To reach from the intersection of Highway 333 South and Highway 27 southwest of Marshall, go south on Highway 27 for 9.6 miles to the station on the left, 33.5 feet north of the centerline of Highway 27, 8.5 feet south of a witness post, and 250 feet east of the center of a gravel driveway. The station mark is a standard 2" cap stamped "Z 149 OFFSET" and set on top of a 2 foot long rebar driven 0.2 feet below ground level.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	W H Phillips, P 277
Ref Mon # 2	ARFY, ARBT
Ref Mon # 3	ARHR

Comments

3-wire levels run from Z 149

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Z 213	5/29/1905	NGS	Mississippi	120	10X746, 101212

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	164,757.0276	0.0030
Easting (M)	596,905.1474	0.0020
Elevation (M)*	82.354	0.0000
Northing (SFT)	540,540.3481	
Easting (SFT)	1,958,346.3044	
Elevation (SFT)*	270.190	

Convergence Angle	1	16	3.9048327
Scale Factor			0.999942921
Elevation Adjust. Factor			0.9999870761
Combined Adjust. Factor			0.9999299979

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order - NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	47	55.5646128	
Longitude	89	49	16.8797532	
Ellipsoid Height (M):			54.560	0.0000
Geoid Height (M):			-27.794	

Location Description

From the intersection on U.S. Highway 61 and Arkansas State Highway 158 near Luxora in Mississippi County, Arkansas, travel North along U. S. Highway 61 for 2.17 Miles to the intersection of U.S. Highway 61 and Arkansas State Highway 120 on the Right, then travel East along Arkansas State Highway 120 for 6.91 Miles to Levee , then travel North along the Levee .1 miles to the station on the Left. The Station is a standard 3" Brass National Geodetic Survey Cap stamped Z 213 (1976) set just below the ground surface on top of a steel rod 4 foot in length and inside a 4 inch PVC pipe. The station is 19 feet (5.79 Meters) West of the Levee centerline and 1.5 foot (.45 Meters) East of Levee Mile Marker 66/67.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Levee Mile Marker 66/67	280	0.45	1.5
MK # 2				
MK # 3				

AZ Mark Station	470039
Geodetic Azimuth	249 05 55.3
Grid Azimuth	247 49 51.4

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARPG
Ref Mon # 2	AROC
Ref Mon # 3	TN45

Comments

ELEV EST BY NGS BY DIFFERENTIAL LEVELING IN JUNE 1991.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Z 290	1/1/1984	NGS	Faulkner	365	012119

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	78,343.3441
Easting (M)	362,050.9740
Elevation (M)*	89.553
Northing (SFT)	257,031.4548
Easting (SFT)	1,187,828.9039
Elevation (SFT)*	293.808
Convergence Angle	0 14 31.2663368
Scale Factor	0.999980947
Elevation Adjust. Factor	0.9999859464
Combined Adjust. Factor	0.9999668937

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	35 2 19.5940428
Longitude	92 24 57.2807052
Ellipsoid Height (M):	61.893
Geoid Height (M):	-27.660

Location Description

To reach the station from jct. SR-365 & SR-89 (Near exit 135 on I-40) in Mayflower, go North on SR-365 4.9 miles to the station on the Right. 46 feet East of the centerline of SR-365, 4 feet West of a chain link fence, 19 feet South of a gas meter and 4 feet West of a witness post.The ststion is a stainless steel rod w/o sleeve (10 FT.+) stamped "Z 290 1984"

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	NW end of a brick house	62	20.40	66.9
MK # 2	Corner of a chain link fence	345	11.90	39.0
MK # 3	Power Pole	335	26.80	87.9

AZ Mark Station	230026
Geodetic Azimuth	335 36 09
Grid Azimuth	335 50 40

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARHR
Ref Mon # 3	ARLR

Comments

This station is a first order NGS bench mark NAVD 88 elevation: 89.553 meters, 293.81 feet.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Z 309	1/2/1989	NOAA	BENTON	62	090065,090096

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)
Northing (M)	238,321.0931
Easting (M)	224,890.2990
Elevation (M)*	475.120
Northing (SFT)	781,891.7863
Easting (SFT)	737,827.5893
Elevation (SFT)*	1,558.790

Convergence Angle	-1	8	12.6932326
Scale Factor			1.000054211
Elevation Adjust. Factor			0.9999254437
Combined Adjust. Factor			0.9999796507

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	1st Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	27	56.5990056	
Longitude	93	57	13.3379712	
Ellipsoid Height (M):	446.958			
Geoid Height (M):	-28.161			

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127, LOCATED IN GARFIELD, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 2.57 KM (1.60 MI) TO THE STATION ON THE RIGHT. THE STATION IS 17.3 METERS EAST OF THE CENTER OF U.S. HIGHWAY 62, 6.1 METERS NORTH-NORTHEAST OF THE CENTER OF A GRAVEL ROAD AND 0.3 METERS NORTHWEST OF A NGS FIBERGLASS WITNESS POST. THE STATION MARK IS METAL ROD DRIVEN TO REFUSAL AT 0.8 METERS ENCASED IN PVC WITH A LOGO CAP STAMPED "Z 309 1989" SURROUNDED BY CONCRETE. THE SHOT DISTANCE IS 590.723 METERS.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FIRE HYDRANT	10	16.90	55.4
MK # 2	GUY POLE	103	7.55	24.8
MK # 3	NONE			

AZ Mark Station	Z 309A
Geodetic Azimuth	14 31 05.213894
Grid Azimuth	15 39 17.944193

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS ARP
Ref Mon # 2	SALLISAW 1 CORS ARP
Ref Mon # 3	NEODESHA CORS ARP

Comments

NGS 1st Order Mark

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Z 309A	9/28/1999	AHTD	BENTON	62	090065,090096

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	238,889.8972	
Easting (M)	225,049.7010	
Elevation (M)*	498.860	
Northing (SFT)	783,757.9377	
Easting (SFT)	738,350.5607	
Elevation (SFT)*	1,636.677	

Convergence Angle	-1	8	9.2321641
Scale Factor	1.000055600		
Elevation Adjust. Factor	0.9999217187		
Combined Adjust. Factor	0.9999773144		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	28	15.1499856
Longitude	93	57	7.3900872
Ellipsoid Height (M):			
Geoid Height (M):	-28.166		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 62 AND STATE HIGHWAY 127 LOCATED IN GARFIELD, GO NORTHEAST ON U.S. HIGHWAY 62 FOR 3.30 KM (2.05 MI) TO THE STATION ON THE LEFT. THE STATION IS 16.77 METERS NORTHWEST OF THE CENTER OF U.S. HIGHWAY 62, 14.00 METERS SOUTH-SOUTHWEST OF THE CENTER OF A PASTURE ENTRANCE AND 0.50 METERS SOUTHEAST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "Z 309A 1999" SET ON TOP OF AN IRON ROD 0.61 METERS LONG AND DRIVEN FLUSH WITH THE GROUND.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	BRACE POST	9	8.23	27.0
MK # 2	TELEPHONE JUNCTION BOX	23	22.65	74.3
MK # 3	NONE			

AZ Mark Station	Z 309
Geodetic Azimuth	194 31 08.74917
Grid Azimuth	195 39 17.94419

Area Reference Monuments (used for Processing)

Ref Mon # 1	CONWAY CORS ARP
Ref Mon # 2	SALLISAW 1 CORS ARP
Ref Mon # 3	NEODESHA CORS ARP

Comments

Elevation by 3 Wire from NGS point Z 309

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Z 31	1/2/1934	USC&GS	BENTON	59	090082

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	234,113.9901	
Easting (M)	179,757.3710	
Elevation (M)*	365.980	
Northing (SFT)	768,088.9825	
Easting (SFT)	589,753.9747	
Elevation (SFT)*	1,200.719	

Convergence Angle	-1	25	44.7027118
Scale Factor	1.000041910		
Elevation Adjust. Factor	0.9999425691		
Combined Adjust. Factor	0.9999844767		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	7.3700940
Longitude	94	27	21.2277384
Ellipsoid Height (M):	337.859		
Geoid Height (M):	-28.121		

Location Description

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 72 EAST, STATE HIGHWAY 59 AND SECOND AVENUE SOUTHWEST, LOCATED IN GRAVETTE, GO SOUTHWEST ON SECOND AVENUE SOUTHWEST FOR 0.32 KM (0.20 MI) TO THE JUNCTION OF DALLAS STREET SOUTHWEST, GO RIGHT, WEST ON DALLAS STREET SOUTHWEST FOR 0.13 KM (0.08 MI) TO THE JUNCTION OF THIRD AVENUE SOUTHWEST AND THE STATION ON THE RIGHT. THE STATION IS 22.50 METERS WEST OF THE WEST RAIL, 6.40 METERS NORTH OF THE CENTER OF DALLAS STREET SOUTHWEST, 6.30 METERS WEST OF THE CENTER OF THIRD AVENUE SOUTHWEST AND 1.33 METERS NORTHWEST OF A WITNESS POST. THE STATION MARK IS A USC&GS BENCH MARK DISK STAMPED "Z 31 1934" SET IN THE TOP OF A SQUARE CONCRETE MONUMENT.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	MAN HOLE COVER TO A WATER METERS	14	2.35	7.7
MK # 2	MANHOLE COVER	140	7.95	26.1
MK # 3	NORTHWEST END OF A CMP	195	2.90	9.5

AZ Mark Station	Z 31A
Geodetic Azimuth	30 30 44.800966
Grid Azimuth	31 56 29.548983

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	SALLISAW 1
Ref Mon # 3	CONWAY CORS ARP

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Z 31A	1/10/2000	AHTD	BENTON	59	090082

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	234,433.7641	
Easting (M)	179,956.7350	
Elevation (M)*	370.806	
Northing (SFT)	769,138.1077	
Easting (SFT)	590,408.0547	
Elevation (SFT)*	1,216.553	

Convergence Angle	-1	25	40.2337565
Scale Factor	1.000042656		
Elevation Adjust. Factor	0.9999418118		
Combined Adjust. Factor	0.9999844654		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	LEVEL - Unkown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:			
Latitude	36	25	17.9018076
Longitude	94	27	13.5477900
Ellipsoid Height (M):	342.683		
Geoid Height (M):	-28.123		

Location Description

THE STATION IS LOCATED IN GRAVETTE , AT THE JUNCTION OF STATE HIGHWAY 59 AND STATE HIGHWAY 72 WEST. THE STATION IS 74.35 METERS SOUTH OF THE CENTER OF STATE HIGHWAY 72, 43.34 METERS WEST OF THE CENTER OF STATE HIGHWAYS 59 AND 72, 12.123 METERS EAST OF THE EAST RAIL AND 2.13 METERS WEST OF A WITNESS POST. THE STATION MARK IS A STANDARD 64mm CAP STAMPED "Z 31A 2000" SET ON TOP OF AN IRON ROD 1.22 METERS LONG AND DRIVEN FLUSH WITH THE GROUND. THE SHOT DISTANCE IS 376.831 METERS. ELEVATION ON THIS STATION WAS ARRIVED AT BY 3 WIRE LEVELS BY CREW S5102 FROM USC&GS BENCH MARK R 34.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	FLAG POLE	110	5.81	19.1
MK # 2	CORNER POST OF A CHAIN LINK FENCE	169	12.31	40.4
MK # 3	NONE			

AZ Mark Station	Z 32
Geodetic Azimuth	210 30 49.36058
Grid Azimuth	211 56 29.54898

Area Reference Monuments (used for Processing)

Ref Mon # 1	AHTD HAR 1
Ref Mon # 2	SALLISAW 1
Ref Mon # 3	CONWAY CORS ARP

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
Z 5	1/1/1930	NGS	CARROLL	NA	090219

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1997)

Northing (M)	222,259.3331	0.0010
Easting (M)	278,745.3420	0.0010
Elevation (M)*	337.981	
Northing (SFT)	729,195.8287	
Easting (SFT)	914,517.0095	
Elevation (SFT)*	1,108.859	

Vertical Determined By:	1st Order by NGS			
Elevation Datum:	NAVD 88			
Geoid Datum:				
Latitude	36	19	44.9224608	
Longitude	93	21	1.7171028	
Ellipsoid Height (M):	309.790			0.0040
Geoid Height (M):	-28.191			0.0040

Convergence Angle	0	47	9.0289429
Scale Factor	1.000020349		
Elevation Adjust. Factor	0.9999469626		
Combined Adjust. Factor	0.9999673105		

Location Description

TO REACH FROM U.S. HWY62 AND CARROLL COUNTY ROAD 803 EAST OF GREEN'FORREST GO NORTHEAST ON COUNTY ROAD 803 TOWARD THE COMMUNITY OF COIN 'FOR 2.10 MILES TO CARROLL COUNTY ROAD 807 ON THE RIGHT, TURN RIGHT ONTO ROAD 807 CROSSING A LOW WATER BRIDGE FOR 0.05

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARHR
Ref Mon # 2	CNWM
Ref Mon # 3	080031, 080031A

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
ZME B	1/1/1995	NGS	TN / SHELBY	N/A	N/A

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*	76.736	
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*	251.758	
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		0.9999879578
Combined Adjust. Factor		#Type!

Vertical Determined By:	LEVEL - Unkown Quality
Elevation Datum:	NAVD 88
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Description

THE STATION IS LOCATED ON THE SOUTH SIDE OF MEMPHIS, TN ALONG THE NORTH SIDE OF THE MEMPHIS INTERNATIONAL AIRPORT, ON THE SOUTHERN RIGHT-OF-WAY OF DEMOCRAT ROAD JUST OUTSIDE THE PERIMETER FENCE OF THE FEDERAL AVIATION ADMINISTRATION (FAA) AIR ROUTE TRAFFIC CONTROL CENTER (ARTCC) , AT 3229 DEMOCRAT ROAD. TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 240 AND U.S. HIGHWAY 78, GO SOUTH (IN A SOUTHEASTERLY DIRECTION) ON U.S. HWY 78 FOR 1 MI (1.6 KM) TO THE INTERSECTION WITH DEMOCRAT ROAD. TURN RIGHT ON DEMOCRAT ROAD AND PROCEED WEST FOR 0.7 MI (1.1 KM) TO THE STATION ON THE LEFT AT THE TOP OF A RISE BY THE FENCE 0.1 MI (0.2 KM) WEST OF THE INTERSECTION OF DEMOCRAT ROAD AND TCHULAHOMA ROAD. IT IS, 11.3 M (37.1 FT) SOUTH-SOUTHWEST OF LIGHT POLE NUMBER 241292, 10 M (32.8 FT) SOUTH OF THE SOUTH CURB OF DEMOCRAT ROAD, 4.1 M (13.5 FT) EAST OF A TENNESSEE DEPARTMENT OF TRANSPORTATION GPS MONUMENT STAMPED 79-DEMO-01 1994, 2.0 M (6.6 FT) NORTH OF A CHAINLINK FENCE AND A CARSONITE WITNESS POST AND ABOUT 1.7 M (5.6 FT) ABOVE THE SURFACE OF DEMOCRAT ROAD. BY D.L. NOCK. 0.24 KM (0.15 MI) EAST OF THE AIR ROUTE TRAFFIC CONTROL CENTER

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1			0.00	0.0
MK # 2			0.00	0.0
MK # 3			0.00	0.0

AZ Mark Station	ZME A (AA5903)
Geodetic Azimuth	256 47
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560019	3/2/2026	ARDOT	POINSETT	14	101235

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	135,641.8772	0.0020
Easting (M)	536,153.1330	0.0020
Elevation (M)*		
Northing (SFT)	445,018.3921	
Easting (SFT)	1,759,029.0705	
Elevation (SFT)*		

Convergence Angle	0	52	25.7598508	
Scale Factor	0.999936150			
Elevation Adjust. Factor				
Combined Adjust. Factor				

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	32	47.8288500
Longitude	90	29	53.9773764
Ellipsoid Height (M):	41.444	0.0010	
Geoid Height (M):	-27.713	0.0010	

Location Description

To reach from the intersection of Hwy. 14 and Interstate 555 go to the off ramp for Southbound I-555. The station is 28.3ft North of the centerline of Hwy. 14 and 59.2 ft East of the Island in the center of the off ramp for Southbound I-555 traffic. The station mark is a standard 2 1/2 in. aluminium cap stamped "560019 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Arched concrete pipe	30	20.10	65.9
MK # 2				
MK # 3				

AZ Mark Station	P 314
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560018	3/2/2026	ARDOT	Poinsett	14	101236

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,076.4690	0.0010
Easting (M)	517,063.9354	0.0010
Elevation (M)*		
Northing (SFT)	485,814.2154	
Easting (SFT)	1,696,400.5947	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	39	40.0639284	
Longitude	90	42	25.3457676	
Ellipsoid Height (M):	47.052			0.0050
Geoid Height (M):	-27.710			0.0050

Convergence Angle	0	45	8.5392392
Scale Factor	0.999936832		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the intersection of Hwy. 1 and Hwy. 158 in Greenfield, go North on Hwy1 for 0.8 miles to the station on the Left/West. The station is 45.4ft. West of the centerline of Hwy.1. The station mark is a standard 2 1/2 in. aluminium cap stamped "560018 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Utility Marker Telephone	220	25.40	83.3
MK # 2				
MK # 3				

AZ Mark Station	560018A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
560018A	3/2/2026	ARDOT	Poinsett	14	101236

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	148,463.8400	0.0010
Easting (M)	517,146.1352	0.0010
Elevation (M)*		
Northing (SFT)	487,085.1151	
Easting (SFT)	1,696,670.2786	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID 18			
Latitude	35	39	52.5973356	
Longitude	90	42	21.8753496	
Ellipsoid Height (M):	47.363			0.0050
Geoid Height (M):	-27.714			0.0050

Convergence Angle	0	45	10.5586724
Scale Factor	0.999936915		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the intersection of Hwy. 1 and Hwy. 158 in Greenfield, go North on Hwy1 for 1.05 miles to the station on the Left/West. The station is 40.3ft. West of the centerline of Hwy.1 and 83.2ft. North of the center of Senteney Rd. The station mark is a standard 2 1/2 in. aluminium cap stamped "560018A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of 3 box culvert	197	10.10	33.1
MK # 2	Combination Pole	325	18.70	61.4
MK # 3	Utility Marker Telephone	230	23.00	75.5

AZ Mark Station	560018
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620049	4/20/2026	ARDOT	Saline	229	HWY.229GR

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	610,573.7204	0.0010
Easting (M)	342,717.8908	0.0010
Elevation (M)*	88.344	

Northing (SFT)	2,003,190.6143	
Easting (SFT)	1,124,400.2801	
Elevation (SFT)*	289.842	

Convergence Angle	0	20	57.7308381	
Scale Factor	0.999961020			
Elevation Adjust. Factor	0.9999861361			
Combined Adjust. Factor	0.9999471567			

SUPERCEDED CONTROL

Horizontal Datum				
Latitude				
Longitude				
Ellipsoid Height:				
Grid Northing (Meters)				
Grid Easting (Meters)				

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	34	33	49.0190004	
Longitude	92	37	27.1891488	
Ellipsoid Height (M):	61.845			0.0070
Geoid Height (M):	-26.465			0.0070

Location Description

To reach from the intersection of I-30 and Hwy. 229 go North on Hwy. 229 for 1.2 miles to the station on the Left/West . The station is 24.8ft West of the centerline of Hwy.229 and 57.0ft. South of the centerline of Peeler Bend Rd.The station mark is a standard 2 1/2 in. aluminium cap stamped "620049 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Wooden Fence Post	294	7.30	24.0
MK # 2	24" Oak Tree	339	13.90	45.6
MK # 3				

AZ Mark Station	620049A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHS
Ref Mon # 3	ARLR

Comments

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
620049A	4/20/2026	ARDOT	Saline	229	HWY.229GR

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	610,306.6638	0.0010
Easting (M)	342,474.7873	0.0010
Elevation (M)*	89.596	
Northing (SFT)	2,002,314.4462	
Easting (SFT)	1,123,602.6980	
Elevation (SFT)*	293.950	

Convergence Angle	0	21	3.0325726
Scale Factor	0.999960631		
Elevation Adjust. Factor	0.9999859396		
Combined Adjust. Factor	0.9999465712		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	Geoid 18		
Latitude	34	33	40.3040556
Longitude	92	37	36.6617640
Ellipsoid Height (M):	63.106		0.0070
Geoid Height (M):	-26.463		0.0070

Location Description

To reach from the intersection of I-30 and Hwy. 229 go North on Hwy. 229 for 1.0 miles to the station on the Left/West . The station is 28.0ft West of the centerline of Hwy. 229 and 20.8ft South of the center of driveway.The station mark is a standard 2 1/2 in. aluminium cap stamped "620049A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	18" Culvert	321	4.40	14.4
MK # 2	24" Oak Tree	304	13.40	44.0
MK # 3				

AZ Mark Station	620049
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHS
Ref Mon # 3	ARLR

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110026	6/16/2026	ARDOT	Clay	49	101208

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,702.8621	0.0010
Easting (M)	551,945.9852	0.0010
Elevation (M)*	84.052	
Northing (SFT)	701,123.4734	
Easting (SFT)	1,810,842.7864	
Elevation (SFT)*	275.761	

Convergence Angle	0	59	1.5435525
Scale Factor	1.000002890		
Elevation Adjust. Factor	0.9999868096		
Combined Adjust. Factor	0.9999896996		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	14	51.9862668
Longitude	90	18	33.8187672
Ellipsoid Height (M):	55.634	0.0080	
Geoid Height (M):	-28.418	0.0080	

Location Description

To reach from the intersection of Hwy.49 and Hwy. 90 in Rector go South on Hwy 49 for 1.25 miles to the station on the Right/West. The station is 25.1' West of the centerline of Hwy. 49. The station mark is a standard 2 1/2 in. aluminium cap stamped "110026 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	53	24.70	81.0
MK # 2				
MK # 3				

AZ Mark Station	110026A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

Elevation based on static derived from NGS CORS sites ARBT, ARPG, ARWY, MODP, MOHT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
110026A	6/16/2026	ARDOT	Clay	49	101208

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	213,995.2652	0.0010
Easting (M)	552,213.6543	0.0010
Elevation (M)*	85.189	
Northing (SFT)	702,082.7992	
Easting (SFT)	1,811,720.9641	
Elevation (SFT)*	279.492	

Convergence Angle	0	59	7.8983490
Scale Factor	1.000003415		
Elevation Adjust. Factor	0.9999866312		
Combined Adjust. Factor	0.9999900462		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	Level - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	36	15	1.3220604
Longitude	90	18	22.8979800
Ellipsoid Height (M):	56.766	0.0080	
Geoid Height (M):	-28.424	0.0080	

Location Description

To reach from the intersection of Hwy.49 and Hwy. 90 in Rector go South on Hwy 49 for 1.0 miles to the station on the Right/West. The station is 35.7' West of the centerline of Hwy. 49 and 41.1' East of the East rail. The station mark is a standard 2 1/2 in. aluminium cap stamped "110026A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	286	6.80	22.3
MK # 2	Southwest end of guardrail	59	11.70	38.4
MK # 3				

AZ Mark Station	110026
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARBT
Ref Mon # 2	ARPG
Ref Mon # 3	ARWY

Comments

Elevation based on static derived from NGS CORS sites ARBT, ARPG, ARWY, MODP, MOHT

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460050	6/29/2026	ARDOT	Miller	30	030655

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	494,960.7970	0.0010
Easting (M)	219,502.3862	0.0010
Elevation (M)*	80.090	
Northing (SFT)	1,623,883.8815	
Easting (SFT)	720,150.7454	
Elevation (SFT)*	262.764	

Convergence Angle	-1	5	14.5435886
Scale Factor	0.999960490		
Elevation Adjust. Factor	0.9999874314		
Combined Adjust. Factor	0.9999479218		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	30	26.6314428
Longitude	93	56	34.1195748
Ellipsoid Height (M):	53.111	0.0040	
Geoid Height (M):	-26.981	0.0040	

Location Description

To reach from the intersection of Interstate 30 and Hwy. 108 Northeast of Texarkana go East on Hwy. 108 for 0.25 miles to the station on the Right/South. The station is 32.6' South of the centerline of Hwy. 108 The station mark is a standard 2 1/2 in. aluminium cap stamped "460050 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	296	29.40	96.5
MK # 2				
MK # 3				

AZ Mark Station	460050A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN JULY 2026 FOR JOB #030655 FROM NGS PUBLISHED 1ST ORDER BMs F 261, Q 261 & A 260

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460050A	6/29/2026	ARDOT	Miller	30	030655

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	495,254.1002	0.0010
Easting (M)	219,230.3769	0.0010
Elevation (M)*	86.818	
Northing (SFT)	1,624,846.1604	
Easting (SFT)	719,258.3282	
Elevation (SFT)*	284.836	

Convergence Angle	-1	5	20.5622661
Scale Factor	0.999960077		
Elevation Adjust. Factor	0.9999863756		
Combined Adjust. Factor	0.9999464531		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	30	35.9823744
Longitude	93	56	44.8731528
Ellipsoid Height (M):	59.828	0.0040	
Geoid Height (M):	-26.983	0.0040	

Location Description

To reach from the intersection of Interstate 30 and Hwy. 108 Northeast of Texarkana go East on Hwy. 108 to the Southeast corner of the bridge to the station on the Right/South. The station is 21.6' South of the centerline of Hwy. 108 The station mark is a standard 2 1/2 in. aluminium cap stamped "460050A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Bridge Corner	332	5.20	17.1
MK # 2	Guardrail	70	1.60	5.2
MK # 3	DropInlet	135	5.30	17.4

AZ Mark Station	460050
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN JULY 2026 FOR JOB #030655 FROM NGS PUBLISHED 1ST ORDER BMs F 261, Q 261 & A 260

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460051	6/29/2026	ARDOT	Miller	30	030655

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	497,292.3757	0.0010
Easting (M)	220,697.5713	0.0010
Elevation (M)*	80.488	
Northing (SFT)	1,631,533.4026	
Easting (SFT)	724,071.9485	
Elevation (SFT)*	264.068	

Convergence Angle	-1	4	49.5825886
Scale Factor			0.999957177
Elevation Adjust. Factor			0.9999873690
Combined Adjust. Factor			0.9999445465

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	33	31	43.0324752	
Longitude	93	55	49.5217272	
Ellipsoid Height (M):			53.488	0.0040
Geoid Height (M):			-27.000	0.0040

Location Description

To reach from the intersection of Hwy.108 and Hwy. 67 Northeast of Texarkana go North on Hwy. 67 for 1.4 miles to Miller County Rd 63, turn Left/West on Miller County Rd. 63 and go 0.6 miles to the station on the Left/South. The station is 13.4' South of the centerline of Miller County Rd. 63. The station mark is a standard 2 1/2 in. aluminium cap stamped "460051 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	East H Brace Post	240	4.70	15.4
MK # 2				
MK # 3				

AZ Mark Station	460051A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN JULY 2026 FOR JOB #030655 FROM NGS PUBLISHED 1ST ORDER BMs F 261, Q 261 & A 260

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460051A	6/29/2026	ARDOT	Miller	30	030655

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	496,944.6935	0.0010
Easting (M)	220,914.4313	0.0010
Elevation (M)*	86.567	
Northing (SFT)	1,630,392.7153	
Easting (SFT)	724,783.4300	
Elevation (SFT)*	284.012	

Convergence Angle	-1	4	44.7373569
Scale Factor	0.999957652		
Elevation Adjust. Factor	0.9999864150		
Combined Adjust. Factor	0.9999440676		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	31	31.8817092
Longitude	93	55	40.8647460
Ellipsoid Height (M):	59.573		0.0040
Geoid Height (M):	-26.997		0.0040

Location Description

To reach from the intersection of Hwy.108 and Hwy. 67 Northeast of Texarkana go North on Hwy. 67 for 1.4 miles to Miller County Rd 63, turn Left/West on Miller County Rd. 63 and go 0.4 miles to the station on the Right/North. The station is 17.8' North of the centerline of Miller County Rd. 63. The station mark is a standard 2 1/2 in. aluminium cap stamped "460051A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Bridge Corner	138	4.40	14.4
MK # 2	DropInlet	313	6.00	19.7
MK # 3				

AZ Mark Station	460051
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN JULY 2026 FOR JOB #030655 FROM NGS PUBLISHED 1ST ORDER BMs F 261, Q 261 & A 260

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460052	6/29/2026	ARDOT	Miller	30	030655

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	498,926.7490	0.0010
Easting (M)	223,156.0672	0.0010
Elevation (M)*	81.295	
Northing (SFT)	1,636,895.5090	
Easting (SFT)	732,137.8638	
Elevation (SFT)*	266.714	

Convergence Angle	-1	3	56.9226059
Scale Factor	0.999954895		
Elevation Adjust. Factor	0.9999872424		
Combined Adjust. Factor	0.9999421379		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	32	37.5678276
Longitude	93	54	15.4340748
Ellipsoid Height (M):	54.285		0.0050
Geoid Height (M):	-27.013		0.0050

Location Description

To reach from the intersection of Hwy.108 and Hwy. 67 Northeast of Texarkana go North on Hwy. 67 for 3.3 miles to Miller County Rd 53, turn Left/West on Miller County Rd. 53 and go 0.55 miles to the station on the Left/South. The station is 10.7' South of the centerline of Miller County Rd. 53, and 13.8' North of Web 1/Barb fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "460052 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	262	16.40	53.8
MK # 2				
MK # 3				

AZ Mark Station	460052A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN JULY 2026 FOR JOB #030655 FROM NGS PUBLISHED 1ST ORDER BMs F 261, Q 261 & A 260

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460052A	6/29/2026	ARDOT	Miller	30	030655

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	498,632.3039	0.0010
Easting (M)	223,415.8275	0.0010
Elevation (M)*	87.269	
Northing (SFT)	1,635,929.4837	
Easting (SFT)	732,990.0941	
Elevation (SFT)*	286.316	

Convergence Angle	-1	3	51.1693272
Scale Factor	0.999955284		
Elevation Adjust. Factor	0.9999863048		
Combined Adjust. Factor	0.9999415894		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	32	28.1688036
Longitude	93	54	5.1546852
Ellipsoid Height (M):	60.253		0.0050
Geoid Height (M):	-27.010		0.0050

Location Description

To reach from the intersection of Hwy.108 and Hwy. 67 Northeast of Texarkana go North on Hwy. 67 for 3.3 miles to Miller County Rd 53, turn Left/West on Miller County Rd. 53 and go 0.3 miles to the station on the Left/South. The station is 16.4' South of the centerline of Miller County Rd. 53. The station mark is a standard 2 1/2 in. aluminium cap stamped "460052A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	DropInlet	298	7.40	24.3
MK # 2	Bridge Corner	119	2.70	8.9
MK # 3				

AZ Mark Station	460052
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN JULY 2026 FOR JOB #030655 FROM NGS PUBLISHED 1ST ORDER BMs F 261, Q 261 & A 260

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460053	6/29/2026	ARDOT	Miller	30	030655

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	499,544.6205	0.0010
Easting (M)	225,527.1801	0.0010
Elevation (M)*	80.482	
Northing (SFT)	1,638,922.6424	
Easting (SFT)	739,917.0900	
Elevation (SFT)*	264.046	

Convergence Angle	-1	3	5.7350255
Scale Factor	0.999954016		
Elevation Adjust. Factor	0.9999873700		
Combined Adjust. Factor	0.9999413866		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	32	59.0419356
Longitude	93	52	43.9771656
Ellipsoid Height (M):	53.477	0.0050	
Geoid Height (M):	-27.016	0.0050	

Location Description

To reach from the intersection of Interstate 30 and Hwy. 67 Northeast of Texarkana go North on Hwy. 67 for 0.1 miles to Miller County Rd 54, turn Left/West on Miller County Rd. 54 and go 0.3 miles to the station on the Left/South. The station is 13.6' South of the centerline of Miller County Rd. 54. The station mark is a standard 2 1/2 in. aluminium cap stamped "460053 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Wooden Cable Barrier Post	166	0.60	2.0
MK # 2				
MK # 3				

AZ Mark Station	460053A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN JULY 2026 FOR JOB #030655 FROM NGS PUBLISHED 1ST ORDER BMs F 261, Q 261 & A 260

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
460053A	6/29/2026	ARDOT	Miller	30	030655

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	499,561.3733	0.0010
Easting (M)	225,918.8737	0.0010
Elevation (M)*	88.193	
Northing (SFT)	1,638,977.6056	
Easting (SFT)	741,202.1715	
Elevation (SFT)*	289.346	

Convergence Angle	-1	2	57.2445619
Scale Factor	0.999953984		
Elevation Adjust. Factor	0.9999861599		
Combined Adjust. Factor	0.9999401445		

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	33	32	59.8187004
Longitude	93	52	28.8072444
Ellipsoid Height (M):	61.183	0.0050	
Geoid Height (M):	-27.015	0.0050	

Location Description

To reach from the intersection of Interstate 30 and Hwy. 67 Northeast of Texarkana go to the Northwest corner of the bridge on Interstate 30. The station is 6.2' North of the North edge of Interstate 30. The station mark is a standard 2 1/2 in. aluminium cap stamped "460053A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Bridge Corner	86	3.40	11.2
MK # 2	DropInlet	214	9.70	31.8
MK # 3				

AZ Mark Station	460053
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARHP
Ref Mon # 3	TXMA

Comments

ELEV. BASED ON DIGITAL LEVELS BY S5103 IN JULY 2026 FOR JOB #030655 FROM NGS PUBLISHED 1ST ORDER BMs F 261, Q 261 & A 260

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ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650059	8/18/2026	ARDOT	Sebastian	turgeon R	041029

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	101,004.6906	0.0010
Easting (M)	187,038.6266	0.0010
Elevation (M)*		
Northing (SFT)	331,379.5557	
Easting (SFT)	613,642.5608	
Elevation (SFT)*		

Convergence Angle	-1	21	40.8209309
Scale Factor	0.999955915		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	35	13	15.4575696	
Longitude	94	20	22.1142372	
Ellipsoid Height (M):	171.686			0.0030
Geoid Height (M):	-30.556			0.0030

Location Description

To reach from the intersection of Highway 71 and Sturgeon Rd. in Greenwood, go West on Sturgeon Rd. for 1.9 miles to the station on the Left/South. The station is 19.2' South of the centerline of Sturgeon Rd., and 49.4' West of the centerline of North Ross Hampton Rd. The station mark is a standard 2 1/2 in. aluminium cap stamped "650059 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650059A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	650058
Ref Mon # 2	650052
Ref Mon # 3	

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
650059A	8/18/2026	ARDOT	Sebastian	turgeon R	041029

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	101,035.3459	0.0010
Easting (M)	186,644.3176	0.0010
Elevation (M)*		

Northing (SFT)	331,480.1307	
Easting (SFT)	612,348.8987	
Elevation (SFT)*		

Convergence Angle	-1	21	49.9084212
Scale Factor	0.999955894		
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	35	13	16.1477868
Longitude	94	20	37.7311884
Ellipsoid Height (M):	179.739	0.0030	
Geoid Height (M):	-30.561	0.0030	

Location Description

To reach from the intersection of Highway 71 and Sturgeon Rd. in Greenwood, go West on Sturgeon Rd. for 2.1 miles to the station on the Left/South. The station is 19.6' South of the centerline of Sturgeon Rd., and 5.6' North of a 5 barb fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "650059A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	650059
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	650058
Ref Mon # 2	650052
Ref Mon # 3	

Comments

LT:35.1316 LG:94.2038

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530027	6/2/2026	ARDOT	Perry	18	080754

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (2011)

Northing (M)	67,421.7140	0.0030
Easting (M)	303,890.7545	0.0030
Elevation (M)*		

Northing (SFT)	221,199.4067	
Easting (SFT)	997,014.9171	
Elevation (SFT)*		

Convergence Angle	0	36	43.8086698
Scale Factor			0.999999398
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:	GEOID18		
Latitude	34	56	11.1246540
Longitude	93	3	7.2692424
Ellipsoid Height (M):	67.320		0.0140
Geoid Height (M):	-28.677		0.0140

Location Description

To reach from the intersection of Hwy.60 and Hwy. 155 in Aplin go West on Hwy. 60 for 4.4 miles to Perry Co. Rd. 18/Wallace Bridge Rd, go South on Wallace Bridge Rd for 1.7 miles to Deberrie Rd., the go East for 0.5 miles to the station on the Right/South. The station is 20.2' s of the centerline of Deberrie Rd.The station mark is a standard 2 1/2 in. aluminium cap stamped "530027 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	48" Oak	25	15.20	49.9
MK # 2	36" Oak	310	15.10	49.5
MK # 3				

AZ Mark Station	530027A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5611 LG:93.0307

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530027A	6/2/2026	ARDOT	Perry	18	080754

Zone	Zone Code
Arkansas North	301
Horizontal Datum	NAD 83 (1986)

Northing (M)	67,516.5671	0.0030
Easting (M)	304,258.3812	0.0020
Elevation (M)*		

Northing (SFT)	221,510.6039	
Easting (SFT)	998,221.0390	
Elevation (SFT)*		

Convergence Angle	0	36	35.4026865
Scale Factor			0.999999224
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:				
Elevation Datum:				
Geoid Datum:	GEOID18			
Latitude	34	56	14.3296908	
Longitude	93	2	52.8234684	
Ellipsoid Height (M):	66.650			0.0140
Geoid Height (M):	-28.672			0.0140

Location Description

To reach from the intersection of Hwy.60 and Hwy. 155 in Aplin go West on Hwy. 60 for 4.4 miles to Perry Co. Rd. 18/Wallace Bridge Rd, go South on Wallace Bridge Rd for 1.7 miles to Deberrie Rd., the go East for 0.2 miles to the station on the Right/South. The station is 18.7' South of the centerline of Deberrie Rd.The station mark is a standard 2 1/2 in. aluminium cap stamped "530027A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	48"Oak	283	17.10	56.1
MK # 2	42" Oak	34	23.50	77.1
MK # 3				

AZ Mark Station	530027
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5614 LG:93.0253

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350041	6/9/2026	ARDOT	Jefferson	365	020834

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	580,183.4075	0.0010
Easting (M)	390,837.4607	0.0010
Elevation (M)*	77.139	
Northing (SFT)	1,903,485.0628	
Easting (SFT)	1,282,272.5690	
Elevation (SFT)*	253.081	

Convergence Angle	0	3	20.5335770
Scale Factor			0.999928475
Elevation Adjust. Factor			0.9999878945
Combined Adjust. Factor			0.9999163704

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels			
Elevation Datum:	NAVD 88			
Geoid Datum:	GEOID18			
Latitude	34	17	28.2335280	
Longitude	92	5	58.2935748	
Ellipsoid Height (M):			51.116	0.0010
Geoid Height (M):			-26.015	0.0010

Location Description

To reach from the intersection of Hwy.365 and Hwy. 256 in White Hall, go South on Hwy. 365 for 0.1 miles to the station on the Left/East. The station is 59.4' East of the centerline of Hwy. 365, and 14.0' Southwest of a 12" plastic pipe.The station mark is a standard 2 1/2 in. aluminium cap stamped "350041 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Center of Sign	148	7.80	25.6
MK # 2				
MK # 3				

AZ Mark Station	350041A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

Elevation based on third order levels from NGS published first order benchmark K 288 by S5103 in June 2026 for Job #020834.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
350041A	6/9/2026	ARDOT	Jefferson	365	020834

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	580,640.5195	0.0020
Easting (M)	390,633.8897	0.0020
Elevation (M)*	79.438	
Northing (SFT)	1,904,984.7711	
Easting (SFT)	1,281,604.6865	
Elevation (SFT)*	260.622	

Convergence Angle	0	3	24.9989200
Scale Factor	0.999928799		
Elevation Adjust. Factor	0.9999875338		
Combined Adjust. Factor	0.9999163337		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	3rd Order - Digital Levels		
Elevation Datum:	NAVD 88		
Geoid Datum:	GEOID18		
Latitude	34	17	43.0630008
Longitude	92	6	6.2718084
Ellipsoid Height (M):	53.428	0.0020	
Geoid Height (M):	-26.018	0.0020	

Location Description

To reach from the intersection of Hwy.365 and Hwy. 256 in White Hall, go North on Hwy. 365 for 0.2 miles to the station on the Left/West. The station is 27.4' West of the centerline of Hwy. 365, and 25.0' North of a paved driveway.The station mark is a standard 2 1/2 in. aluminium cap stamped "350041A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	213	4.60	15.1
MK # 2	Telephone Box	242	4.20	13.8
MK # 3				

AZ Mark Station	350041
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARGS
Ref Mon # 2	ARLR
Ref Mon # 3	ARPB

Comments

Elevation based on third order levels from NGS published first order benchmark K 288 by S5103 in June 2026 for Job #020834.

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530022	3/31/2026	ARDOT	Perry	on Valley	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 0.4 miles to the station on the Left/North.The station is 64.0' North of the cenerline of Union Valley Rd., and 58.0' South of a 2 barb/webwire fence.The station mark is a standard 2 1/2 in. aluminium cap stamped "530022 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	234	1.10	3.6
MK # 2				
MK # 3				

AZ Mark Station	530022A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5607 LG:92.5837

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530022A	3/31/2026	ARDOT	Perry	on Valley	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 0.7 miles to the station on the Left/North.The station is 28.6' North of the cenerline of Union Valley Rd., and 18.5' South of a 2 barb/webwire fence.The station mark is a standard 2 1/2 in. aluminium cap stamped "530022A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	92	30.80	101.0
MK # 2	48" Culvert	105	7.60	24.9
MK # 3				

AZ Mark Station	530022
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5605 LG:92.5821

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530024	3/31/2026	ARDOT	Perry	on Valley	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 1.75 miles to the station on the Left/North.The station is 38.8' North of the cenerline of Union Valley Rd., 3.5' South of a 4 barb fence, and 54.4' East of a gravel field entrance.The station mark is a standard 2 1/2 in. aluminium cap stamped "530024 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	51	10.70	35.1
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5609 LG:92.5720

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530024A	3/31/2026	ARDOT	Perry	on Valley	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 2.1 miles to the station on the Left/North.The station is 37.8' North of the cenerline of Union Valley Rd., and 4.0' South of a 4 barb fence.The station mark is a standard 2 1/2 in. aluminium cap stamped "530024A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Center of Metal Gate	75	10.20	33.5
MK # 2	Combination Pole	83	24.50	80.4
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5605 LG:92.5701

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530025	3/31/2026	ARDOT	Perry	on Valley	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 3.25 miles to the station on the Left/North.The station is 53.0' North of the cenerline of Union Valley Rd.The station mark is a standard 2 1/2 in. aluminium cap stamped "530025 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1				
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5609 LG:92.5552

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530025A	3/31/2026	ARDOT	Perry	on Valley	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 3.05 miles to the station on the Left/North.The station is 39.6' North of the cenerline of Union Valley Rd.The station mark is a standard 2 1/2 in. aluminium cap stamped "530025A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	36" Corrogated Metal Pipe	100	10.40	34.1
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5609 LG:92.5603

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530026	3/31/2026	ARDOT	Perry	on Valley	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		

Convergence Angle	###	###	#Error
Scale Factor			#Error
Elevation Adjust. Factor			
Combined Adjust. Factor			#Type!

Vertical Determined By:			
Elevation Datum:			
Geoid Datum:			
Latitude			
Longitude			
Ellipsoid Height (M):			
Geoid Height (M):			

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 4.7 miles to the station on the Right/South.The station is 38.3' South of the cenerline of Union Valley Rd.The station mark is a standard 2 1/2 in. aluminium cap stamped "530026 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

Description		Azimuth	Distance	
			Meters	Feet
MK # 1	East end Metal Gate	212	7.60	24.9
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5618 LG:92.5419

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530026A	3/31/2026	ARDOT	Perry	on Valley	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:	
Elevation Datum:	
Geoid Datum:	
Latitude	
Longitude	
Ellipsoid Height (M):	
Geoid Height (M):	

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 5.0 miles to the station on the Left/North.The station is 33.7' North of the cenerline of Union Valley Rd., and 1.5' South of a 5 barb fence. The station mark is a standard 2 1/2 in. aluminium cap stamped "530026A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum	
Latitude	
Longitude	
Ellipsoid Height:	
Grid Northing (Meters)	
Grid Easting (Meters)	

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Combination Pole	50	23.50	77.1
MK # 2				
MK # 3				

AZ Mark Station	
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	
Ref Mon # 2	
Ref Mon # 3	

Comments

LT:34.5623 LG:92.5402

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
530023	3/31/2026	ARDOT	PERRY	N VALLE	FA5306

Zone	Zone Code
Arkansas South	

Horizontal Datum		
Northing (M)	#Error	
Easting (M)	#Error	
Elevation (M)*		
Northing (SFT)	#Type!	
Easting (SFT)	#Type!	
Elevation (SFT)*		
Convergence Angle	### ###	#Error
Scale Factor		#Error
Elevation Adjust. Factor		
Combined Adjust. Factor		#Type!

Vertical Determined By:		
Elevation Datum:		
Geoid Datum:		
Latitude		
Longitude		
Ellipsoid Height (M):		
Geoid Height (M):		

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Description

To reach from the intersection of Hwy. 155 S. and Union Valley Rd. Go East on Union Valley Rd. for 1.15 miles to the station on the Left/North.The station is 37.8' North of the cenerline of Union Valley Rd., and 5.5' South of a 4 barb fence.The station mark is a standard 2 1/2 in. aluminium cap stamped "530023 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

Description		Azimuth	Distance Meters	Distance Feet
MK # 1	Combination Pole	283	41.80	137.1
MK # 2	Combination Pole	87	43.70	143.4
MK # 3				

AZ Mark Station	NONE
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARLR
Ref Mon # 2	ARME
Ref Mon # 3	ARRV

Comments

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520011	5/21/2026	ARDOT	Ouachita	79	070634

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	519,145.1145	0.0020
Easting (M)	343,112.6866	0.0010
Elevation (M)*		
Northing (SFT)	1,703,228.5965	
Easting (SFT)	1,125,695.5393	
Elevation (SFT)*		

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	44	21.6870324	
Longitude	92	36	50.1911172	
Ellipsoid Height (M):	45.190			0.0070
Geoid Height (M):	-26.160			0.0070

Convergence Angle	0	20	37.0233844
Scale Factor	0.999931652		
Elevation Adjust. Factor			
Combined Adjust. Factor			

Location Description

To reach from the intersection of Hwy.79 and Hwy. 203 in Bearden go East on Hwy. 79 for 0.2 miles to the station on the Right/South .The station is 31.6' South of the centerline of Hwy. 79, and 30.2' Eastl of the center of paved driveway to Bearden Baseball and Softball Complex .The station mark is a standard 2 1/2 in. aluminium cap stamped "520011 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Location Reference Marks

	Description	Azimuth	Distance	
			Meters	Feet
MK # 1	Metal Gate Post	180	11.70	38.4
MK # 2	Sign Post	222	23.00	75.5
MK # 3				

AZ Mark Station	520011A
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARMO

Comments

STATIC DERIVED ELEVATION BASED ON ORTHOMETRIC HT.
CONSTRAINTS ON CORS SITES ARCM, ARGS, ARMO

*** IF BOX IS BLANK, THEN ELEVATIONS HAVE NOT BEEN ESTABLISHED BY CURRENT PROCEDURES**

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

GPS Control Data Form

USE WITH CAUTION. EVERYTHING IS ASSUMED UNTIL PROVEN.

Station	Date Monumented	Monumented By	County	Route	Job Number:
520011A	5/21/2026	ARDOT	Ouachita	79	070634

Zone	Zone Code
Arkansas South	302
Horizontal Datum	NAD 83 (2011)

Northing (M)	518,748.8937	0.0020
Easting (M)	343,039.4143	0.0010
Elevation (M)*		

Northing (SFT)	1,701,928.6621	
Easting (SFT)	1,125,455.1451	
Elevation (SFT)*		

Convergence Angle	0	20	38.5649277
Scale Factor			0.999931974
Elevation Adjust. Factor			
Combined Adjust. Factor			

SUPERCEDED CONTROL

Horizontal Datum			
Latitude			
Longitude			
Ellipsoid Height:			
Grid Northing (Meters)			
Grid Easting (Meters)			

Vertical Determined By:	GPS - Unknown Quality			
Elevation Datum:	NAVD 88			
Geoid Datum:	Geoid 18			
Latitude	33	44	8.8121724	
Longitude	92	36	52.9453944	
Ellipsoid Height (M):			45.209	0.0070
Geoid Height (M):			-26.159	0.0070

Location Description

To reach from the intersection of Hwy.79 and Hwy. 203 in Bearden go East on Hwy. 79 for 0.2 miles to a driveway to Bearden Baseball and Softball Complex, go for 0.15 miles to entrance to parking at ticketbooth on Right/West, go for 0.1 miles to the station on the Right/West .The station is 26.8' West of the center of gravel road behind ball fields.The station mark is a standard 2 1/2 in. aluminium cap stamped "520011A 2026" and set on top of a 5/8" by 4' rebar driven 0.10 in. below the surface.

Location Reference Marks

	Description	Azimuth	Distance Meters	Distance Feet
MK # 1	Light Pole	19	18.80	61.7
MK # 2	Flag Pole	1	43.40	142.4
MK # 3				

AZ Mark Station	520011
Geodetic Azimuth	
Grid Azimuth	

Area Reference Monuments (used for Processing)

Ref Mon # 1	ARCM
Ref Mon # 2	ARGS
Ref Mon # 3	ARMO

Comments

STATIC DERIVED ELEVATION BASED ON ORTHOMETRIC HT.
CONSTRAINTS ON CORS SITES ARCM, ARGS, ARMO

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